“Sustaining Healthcare Infrastructure”

31st Annual Conference of the Canadian Healthcare Engineering Society

2011

CHES SCISS
Annual Trade Show & Education Forum
Winnipeg Convention Centre, Winnipeg Manitoba, Sept 25-27, 2011

September 25-27, 2011
Winnipeg Convention Centre
Winnipeg MB
Thank you to our Sponsors!

**KEY**

**Honeywell**

**DIAMOND**

Direct Energy

Johnson Controls

TRANE

**GOLD**

Precise Parklink

Primex Wireless

Mikkelsen-Coward & Co. Ltd.

**SILVER**

Precise Parklink

Primex Wireless

Mikkelsen-Coward & Co. Ltd.

Reliable Controls

Thomson Technology

VFA Canada

Williams Engineering

**BRONZE**

BGE Service & Supply Ltd.

Camfil Farr (Canada) Inc.

LM Architectural Group

**FRIEND**

Axis Communications

IEM Industrial Electric Mfg (Canada) Inc.
Thank You To Our Sponsors

The Canadian Healthcare Engineering Society and the 2011 Organizing Committee gratefully acknowledge the generous contributions and financial support of our sponsors.
A MESSAGE FROM THE PREMIER

On behalf of the Province of Manitoba it is my pleasure to welcome all attendees to the Canadian Healthcare Engineering Society’s 31st Annual Conference and Tradeshow.

A successful healthcare system requires many components. Healthcare engineers provide the planning, design and operation of our hospitals’ technical services systems. Hospitals rely on these technical services in order to provide their patients with the care they deserve. Your work is commendable and every single person who has ever used our country’s hospital services has you to thank for their treatment.

The theme of this year’s conference is sustaining healthcare infrastructure and I am sure there will be some informative presentations and lively discussion on the subject. Special thanks are due to the Canadian Healthcare Engineering Society’s Manitoba Chapter for organizing this conference.

I wish you all the best for an enjoyable and informative conference.

Greg Selinger
On behalf of the City of Winnipeg, I would like to take this opportunity to offer my warmest greetings to all attending the 2011 Annual Canadian Healthcare Engineering Society Conference on “Sustaining Healthcare Infrastructure”.

The Canadian Healthcare Engineering Society along with the Manitoba Chapter of the Canadian Healthcare Engineering Society have organized a truly exceptional event. This conference promises to be informative and helpful as it continues to promote improved planning, design, operation and management of hospital technical service systems to elevate the efficiency and effectiveness of healthcare delivery.

For those of you visiting Winnipeg, I hope you will make time to enjoy some of the vast array of arts, dining, shopping, and other entertainment Winnipeg offers. There is truly something for everyone.

On behalf of my esteemed City Council colleagues and all the citizens of Winnipeg, welcome to our great City. I would like to wish you all the best for an enjoyable event.

Warm regards,

Sam Katz
MAYOR

Heart of the Continent • Au cœur du continent
CHES Board of Directors
2010 - 2011

President ................................................................. Michael Hickey
Vice President .......................................................... J.J. Knott
Past President .......................................................... Steve Rees
Secretary ................................................................. Philip Langford
Treasurer ................................................................. Peter Whiteman
Alberta Chapter Chair .............................................. Ken Herbert
British Columbia Chapter Chair ................................. Mitch Weimer
Manitoba Chapter Chair ............................................. Richard Lacoursière
Maritime Chapter Chair ............................................ Bill Goobie
NL Chapter Chair ....................................................... Randy Cull
Ontario Chapter Chair .............................................. Allan Kelly
Executive Director ..................................................... Elizabeth Hooper

CHES Committees

CHES Membership Committee Chair ......................... Allan Kelly

CHES Communications Committee Chair ..................... John Karman

CHES Professional Development Committee Chair .......... George Pankiw
  Canadian Healthcare Construction Course ..................... Gordon Burrill
  Medical Gas Piping Systems Course ............................. George Pankiw
Conference Planning Team 2011 ................................. Richard Lacoursière
Conference Planning Team 2012 ................................. Gordon Burrill

CHES Governance Committee Chair ............................. Michael Hickey

CHES Advocacy and Partnerships Chair ......................... Steve Rees
CHES Healthcare Standards Subcommittee Chair ............. Gordon Burrill

2011
National Facilities & Healthcare Engineering
Week
OCTOBER 24 - 30
Help us Celebrate!
Greetings to All! On behalf of our Executive Team and the CHES Board of Directors I welcome you to Winnipeg and the 31st Annual National Conference of the Canadian Healthcare Engineering Society. Once again we have a full slate of great education sessions from Codes and Standards, to the age old question...is it time for the wrecking ball? We are fortunate to once again have well over 300 delegates and exhibitors at for our conference. Please do take the time to visit our exhibitors, as without their support, our show would not be possible. As well once again this year, we have a full list of sponsors for our many events, some whom have supported our organization for several years, while some are first timers (and hopefully will continue). We are privileged they have found value in partnering with CHES, so please do look for the signs showing who the sponsors are, and take some time to visit them and thank them for their continued support.

I send my many congratulations and many thanks to Richard Lecoursière, Chair of the Manitoba Chapter and Conference Chair for this year’s conference, and his dedicated conference planning team. They have done a wonderful job in bringing us together for another great show! When you see them around the trade show floor, please take the time to shake their hand and show your appreciation for their hard work.

On Wednesday of this week, we hope to see you at the Canadian Healthcare Construction Course. That course is normally a two day course, but if you attend the full conference, we can get you through that program in just one day. For more information on the course, please go to our website at www.ches.org While on our site, please browse the amazing website we have built......it is full of great stuff!

And finally, as this is my last conference as President of our wonderful organization, I would like to send my personal thanks to you for the great things you have done to make CHES strong. From our executive and board (including Elizabeth and Donna), to our working teams and all our members, you are truly special people. Never forget, you make a huge impact on the wonderful outcomes our patients, visitors and staff see every day’.... You are simply the best!

Enjoy the conference, take some time to say hello to your colleagues and friends, and mark your calendar for CHES 2012 to be held in Montreal September 23-25th, 2012.

Have a great week!

Mike Hickey
President
CHES 2011 Organizing Committee

CHAIR
Richard Lacoursière

Chair, Education Committee Gordon Burrill
Chair, Promotion/Communications Reynold Peters
Chair, Social Committee Diane Price
Chair, Golf Committee Bruce Kennedy
Chair, Exhibit & Sponsorship Committee Tom Still
Chair, Green Park Kent Waddington

Committee Members
Barry Hunt
George Pankiw
Connie Reid

Liaison
JJ Knott, Executive Liaison

Conference & Tradeshow Office
Elizabeth Hooper, CHES Executive Director
Donna Dennison, Conference Manager

CHES Business Meetings

SATURDAY SEPTEMBER 24, 2011
09:00-17:00 CHES Board of Directors Meeting Kildonan Room, Delta Winnipeg Hotel
12:00-13:00 CHES Board Lunch Campaign AB, Delta Winnipeg Hotel

SUNDAY SEPTEMBER 25, 2011
09:00-12:00 CHES BC Chapter Executive Meeting EQ3, Winnipeg Convention Centre
17:30-18:30 CHES Healthcare Standards Committee EQ3, Winnipeg Convention Centre

MONDAY SEPTEMBER 26, 2011
07:00-08:30 CHES Communications Committee Pan Am Room, Winnipeg Convention Centre
07:30-08:30 CHES Membership Committee Pan Am Room, Winnipeg Convention Centre
CHES Professional Development Committee Pan Am Room, Winnipeg Convention Centre
CHES Partnerships & Advocacy Committee Pan Am Room, Winnipeg Convention Centre

TUESDAY SEPTEMBER 27, 2011
08:00-08:30 CHES MB Chapter AGM Room 16, Winnipeg Convention Centre
08:30-09:00 CHES Board/Exhibitors Room 16, Winnipeg Convention Centre
09:30-10:30 CHES National AGM Room 2GH, Winnipeg Convention Centre
17:00-19:00 CHES 2011-12 Board of Directors Meeting EQ3, Winnipeg Convention Centre
Welcome from the Chair of the Organizing Committee

Welcome to Friendly Manitoba, in particular to Winnipeg, home to the NHL’s newest Hockey team and the 31st Annual Canadian Healthcare Engineering Society Annual Trade Show and Education Forum. The 2011 conference theme “Sustaining Healthcare Infrastructure” is essential to maintaining and improving present day Healthcare services. We are delighted with this year’s keynote speaker; Dr. Lloyd Axworthy, President and Vice Chancellor of the University of Winnipeg who will be speaking on “Transforming the University of Winnipeg infrastructure for a sustainable and healthy Community”.

The conference planning committee has been working hard for the past year and a half piecing together what we hope will be a memorable and enjoyable stay in the heart of the continent. The conference starts with the great CHES Golf Game followed by the Opening Reception on Sunday Evening on the trade show floor.

Monday morning the conference is underway with a variety of education sessions to give us practicable tools to help us in our daily responsibilities in providing better Healthcare services through sustaining our declining infrastructure.

To compensate for the business and educational portion of the conference, we have an outstanding Manitoba social style Gala Banquet planned for Monday night under the guidance of Rocki Rolletie and the Retro Rhythm Review. Come out and prepared to be entertained and enjoy a wonderful Winnipeg evening.

On behalf of all the 2011 Conference organizing and educational committees, I would like to extend a warm welcome to all the delegates, companions and speakers for it is all of you who will make this a very memorable CHES event. We would also like to offer a special welcome to our Sponsors and Exhibitors, for without your support this conference could not be possible.

Welcome to Winnipeg 2011, enjoy the sights and sounds of Winnipeg in September. CHES Manitoba will not assume responsibility for any and all mosquito attacks!

Richard Lacoursière CD C.tech
Chair, Planning Committee
CHES 2011
#### Exhibit Companies

- **Company is an Industry Partner on the CHES web page.**
- **Company is a Conference Sponsor**
- **Booth in the Green Park**
- **Booth qualified as “Inspire Green” and working toward being green**

<table>
<thead>
<tr>
<th>Booth #</th>
<th>Company Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>144</td>
<td>Abatement Technologies Ltd.</td>
</tr>
<tr>
<td>121</td>
<td>Ambassador Sales</td>
</tr>
<tr>
<td>52</td>
<td>Asco Power Technologies Canada</td>
</tr>
<tr>
<td>54</td>
<td>Austco (Canada)</td>
</tr>
<tr>
<td>148</td>
<td>Axis Communications</td>
</tr>
<tr>
<td>91</td>
<td>Belfor Property Restoration</td>
</tr>
<tr>
<td>46/87</td>
<td>BGE Service &amp; Supply</td>
</tr>
<tr>
<td>140</td>
<td>Busch Vacuum Technics Inc.</td>
</tr>
<tr>
<td>41C</td>
<td>C/S Construction Specialties Ltd.</td>
</tr>
<tr>
<td>1</td>
<td>Camfil Farr (Canada) Inc.</td>
</tr>
<tr>
<td>41</td>
<td>Canadian Coalition for Green Health Care</td>
</tr>
<tr>
<td>150</td>
<td>CAPPstone Incorporated</td>
</tr>
<tr>
<td>125</td>
<td>Carrier</td>
</tr>
<tr>
<td>8</td>
<td>CEM Engineering</td>
</tr>
<tr>
<td>57</td>
<td>Central Hydronics Inc.</td>
</tr>
<tr>
<td>98</td>
<td>Certolux</td>
</tr>
<tr>
<td>106</td>
<td>CHEM-Aqua Canada</td>
</tr>
<tr>
<td>65</td>
<td>CHES</td>
</tr>
<tr>
<td>64</td>
<td>CHES 2012 Conference</td>
</tr>
<tr>
<td>116/117/118</td>
<td>Chubb Edwards, A UTC Fire &amp; Security Company</td>
</tr>
<tr>
<td>138</td>
<td>Class 1 Inc.</td>
</tr>
<tr>
<td>45</td>
<td>Coinomatic Commercial Laundry Inc.</td>
</tr>
<tr>
<td>120</td>
<td>Comarico Equipment Ltd.</td>
</tr>
<tr>
<td>63</td>
<td>CP Distributors</td>
</tr>
<tr>
<td>83</td>
<td>Dafo Filtration Group Corp.</td>
</tr>
<tr>
<td>129</td>
<td>Delta Controls</td>
</tr>
<tr>
<td>88</td>
<td>Direct Energy Business Services Limited</td>
</tr>
<tr>
<td>152</td>
<td>Dri-Steem Corporation</td>
</tr>
<tr>
<td>43</td>
<td>E. H. Price Ltd. / Flanders - Precisionaire</td>
</tr>
<tr>
<td>136</td>
<td>ECNG Energy L.P.</td>
</tr>
<tr>
<td>41B</td>
<td>Eco Facility Solutions</td>
</tr>
<tr>
<td>147</td>
<td>Ecosystem</td>
</tr>
<tr>
<td>84</td>
<td>El Solutions</td>
</tr>
<tr>
<td>105</td>
<td>Emergent Incorporated</td>
</tr>
<tr>
<td>60</td>
<td>Engineered Air</td>
</tr>
<tr>
<td>47</td>
<td>ERV Parent Co. Ltd.</td>
</tr>
<tr>
<td>128</td>
<td>Fibrwrap Construction Canada Ltd.</td>
</tr>
<tr>
<td>142</td>
<td>Fluke Electronics Canada LP</td>
</tr>
<tr>
<td>55</td>
<td>Follett Corporation</td>
</tr>
<tr>
<td>50</td>
<td>Forbo Flooring Systems</td>
</tr>
<tr>
<td>86</td>
<td>Freudenberg Nonwovens</td>
</tr>
<tr>
<td>110</td>
<td>Garland Canada Inc.</td>
</tr>
<tr>
<td>53</td>
<td>GE Energy, Industrial Solutions</td>
</tr>
<tr>
<td>124</td>
<td>GE Water and Process Technologies</td>
</tr>
<tr>
<td>112/113</td>
<td>Gen-eer Construction Ltd.</td>
</tr>
<tr>
<td>92</td>
<td>Genivar</td>
</tr>
<tr>
<td>56</td>
<td>GlassCell Isofab Inc.</td>
</tr>
<tr>
<td>114</td>
<td>Hazmasters</td>
</tr>
<tr>
<td>96</td>
<td>Hilti (Canada) Corporation</td>
</tr>
<tr>
<td>51</td>
<td>Honeywell Limited</td>
</tr>
<tr>
<td>130</td>
<td>IEM Industrial Electrical Mfg. (Canada) Inc.</td>
</tr>
<tr>
<td>111</td>
<td>Ingersoll Rand Security Technologies</td>
</tr>
<tr>
<td>102</td>
<td>Johnson Controls</td>
</tr>
<tr>
<td>4</td>
<td>Klenzoid Company Ltd.</td>
</tr>
<tr>
<td>119</td>
<td>Kraus / Floors with More</td>
</tr>
<tr>
<td>44</td>
<td>Lenel Systems International</td>
</tr>
<tr>
<td>126</td>
<td>Life Safety Services</td>
</tr>
<tr>
<td>103</td>
<td>LSI Floors Inc.</td>
</tr>
<tr>
<td>40</td>
<td>Manitoba Hydro</td>
</tr>
<tr>
<td>146</td>
<td>MCW Custom Energy Solutions</td>
</tr>
<tr>
<td>42</td>
<td>MediaEdge Communications Inc.</td>
</tr>
<tr>
<td>122</td>
<td>Midwest Engineering</td>
</tr>
<tr>
<td>41A</td>
<td>Nexterra Systems Corp.</td>
</tr>
<tr>
<td>109</td>
<td>Noro systems inc.</td>
</tr>
<tr>
<td>61</td>
<td>Norspec Filtration Ltd.</td>
</tr>
<tr>
<td>135</td>
<td>Notifier</td>
</tr>
<tr>
<td>49</td>
<td>Philips Lighting</td>
</tr>
<tr>
<td>2</td>
<td>Phoenix Controls Corp</td>
</tr>
<tr>
<td>66</td>
<td>Pneumatic Tube Systems Inc.</td>
</tr>
<tr>
<td>133</td>
<td>Poly-Mor Canada Inc.</td>
</tr>
<tr>
<td>5</td>
<td>Primex Wireless</td>
</tr>
<tr>
<td>100/101</td>
<td>Qualitair Inc.</td>
</tr>
<tr>
<td>59</td>
<td>RANA - On-site Gas Systems</td>
</tr>
<tr>
<td>90</td>
<td>Rauland-Borg Canada</td>
</tr>
<tr>
<td>3</td>
<td>Refrigerative Supply</td>
</tr>
<tr>
<td>139</td>
<td>Reliable Controls Corporation</td>
</tr>
<tr>
<td>6</td>
<td>Share Canada</td>
</tr>
<tr>
<td>99</td>
<td>Siemens Canada Ltd.</td>
</tr>
<tr>
<td>134</td>
<td>Siemens</td>
</tr>
<tr>
<td>62</td>
<td>SimplexGrinnell</td>
</tr>
<tr>
<td>143</td>
<td>Specified Technologies, Inc.</td>
</tr>
<tr>
<td>85</td>
<td>Stanley Healthcare Solutions</td>
</tr>
<tr>
<td>95</td>
<td>Stantec Consulting Ltd.</td>
</tr>
<tr>
<td>7</td>
<td>Steam Speciality Sales</td>
</tr>
<tr>
<td>115</td>
<td>StonCor Group</td>
</tr>
<tr>
<td>89</td>
<td>Sybertech Waste Reduction Ltd.</td>
</tr>
<tr>
<td>123</td>
<td>Tempef North American</td>
</tr>
<tr>
<td>58</td>
<td>Thermogenics Inc.</td>
</tr>
<tr>
<td>137</td>
<td>Thomson Technology</td>
</tr>
<tr>
<td>153</td>
<td>Toromont CAT</td>
</tr>
<tr>
<td>157</td>
<td>Trane Canada</td>
</tr>
<tr>
<td>104</td>
<td>Tremco</td>
</tr>
<tr>
<td>151</td>
<td>Vernacare</td>
</tr>
<tr>
<td>127</td>
<td>VFA Canada Corporation</td>
</tr>
<tr>
<td>145</td>
<td>Victaulic Company of Canada Ltd.</td>
</tr>
<tr>
<td>141</td>
<td>VitalAire Canada Inc.</td>
</tr>
<tr>
<td>132</td>
<td>WEB WORK byTero</td>
</tr>
<tr>
<td>108</td>
<td>Weishaupt Corporation</td>
</tr>
<tr>
<td>48</td>
<td>Wesco Distribution Canada, LP</td>
</tr>
</tbody>
</table>
Social Program

The Great CHES Golf Game
Sunday September 25, 2011
0830 - 1430

❖ Lunch sponsored by SMS Engineering GOLD SPONSOR

Again this year we will be holding the Great CHES Golf Game. The game will be at the Bridges Golf Course and all delegates and exhibitors are invited to participate. This will be a shotgun start Texas scramble format.

Carts will be shared (2 people per cart). Cost: $85/person (plus HST)

0730 Bus departs from Delta Winnipeg Hotel for Bridges Golf Course
0830 Golf Tournament begins
1130 Lunch at the 9th hole
1330 Bus departs Golf Club and returns to Delta Winnipeg Hotel

Companion Meal Package

SUNDAY SEPTEMBER 25, 2011
18:30-21:00 Opening Reception, Winnipeg Convention Centre

MONDAY SEPTEMBER 26, 2011
07:00-08:30 Breakfast with the Delegates
08:30-08:45 Opening Ceremonies
08:45-09:45 Keynote Address, Dr. Lloyd Axworthy
18:00-23:30 President’s Reception & Gala Banquet

TUESDAY SEPTEMBER 27, 2011
07:00-08:30 Breakfast with the delegates

Ticket cost: Early Bird $150; Regular: $175
Social Program

Sunday September 25, 2011
OPENING RECEPTION
18:30-21:00
Hall A, Winnipeg Convention Centre

❖ Sponsored by Class 1 Inc. PLATINUM SPONSOR

Our conference will kick off with the Opening Reception in the Exhibit Hall sponsored by Class 1 Inc. Join us for food, friends, and fun!

Complimentary for all registered delegates and exhibitors and registrants in Companion Program.

Monday September 26, 2011
GALA RECEPTION & BANQUET
Winnipeg Convention Centre

18:00-19:00
President’s Reception
East Concourse, 1st Floor, Winnipeg Convention Centre

❖ Sponsored by Tremco Canada PLATINUM SPONSOR

19:00-24:00
Gala Banquet & Presentation of CHES Awards
Room 2 South, 1st Floor, Winnipeg Convention Centre

BANQUET
❖ Sponsored by Johnson Controls Inc. DIAMOND SPONSOR

ENTERTAINMENT
❖ Sponsored by Direct Energy DIAMOND SPONSOR

Entertainer, comic, and journalist Peter Jordan will rock your socks off at banquet. Jordan’s band, Rocki Rolletti and the Retro Rhythm Review, took Winnipeg’s entertainment scene by storm with its decidedly goofy take on rock n’ roll in the 1980s. Jordan went on to star in the CBC-TV work series It’s a Living, which aired on CBC Television from 1989-2003. The program won two Gemini awards for Best Host Lifestyle or Performing Arts Program or Series, once in 1998 and again in 2000. He was a four-time nominee in the same category. Jordan was also a regular contributor to CBWT’s 24Hours Late Night program in the 1980s. He continues to contribute to CBC-TV news on a regular basis.

Included as part of the registration fee.
Tickets: Included in delegate registration. Extra tickets: $95/person
General Information

CONFERENCE LOCATIONS

<table>
<thead>
<tr>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Show</td>
<td>Hall A, 3rd Floor Winnipeg Convention Centre</td>
</tr>
<tr>
<td>Education Forum</td>
<td>Room 2GH, 2nd Floor Winnipeg Convention Centre</td>
</tr>
<tr>
<td>Registration</td>
<td>3rd Floor West Concourse, Winnipeg Convention Centre</td>
</tr>
<tr>
<td>Breakfast</td>
<td>Pan Am Room, 2nd Floor Winnipeg Convention Centre</td>
</tr>
<tr>
<td>Meetings</td>
<td>EQ3, 2nd Floor Winnipeg Convention Centre</td>
</tr>
<tr>
<td></td>
<td>Room 16, 3rd Floor Winnipeg Convention Centre</td>
</tr>
</tbody>
</table>

TRADE SHOW HOURS:

- Sunday September 25, 2011 18:30-21:00
- Monday September 26, 2011 09:45-15:00
- Tuesday September 27, 2011 10:00-13:15

DELEGATE REGISTRATION DESK HOURS:

- Sunday September 25, 2011 1100 - 20:00
- Monday September 26, 2011 0700 - 17:00
- Tuesday September 27, 2011 0700 - 15:00

REGISTRATION SPONSORS & GIFTS:

- Official Time Clock sponsored by Primex Wireless  SILVER SPONSOR
- Notepads & Pens sponsored by IEM
- Lanyards sponsored by Axis Communications

PLEASE NOTE: Name Badge: Delegates are required to wear their name badge to all conference functions including access to the Tradeshow Floor and Education sessions.

Social Events & Meals: Applicable tickets for meals and social events will be in the registration packages and will be collected at each function. Additional tickets are available at the Registration Desk.
### Monday September 26, 2011

#### Day at a Glance

### Sunday

**Time** | **Event** | **Locale in Convention Centre**
--- | --- | ---
0830-1430 | The Great CHES Golf Game | Bridges Golf Course
0900-1200 | CHES BC Chapter Executive Meeting | EQ#
1730-1830 | CHES Healthcare Standards Committee | EQ3
1830-2100 | Opening Reception | Hall A

### Monday

**Time** | **Event** | **Locale in Convention Centre**
--- | --- | ---
0700-1700 | Registration | Foyer
0700-0830 | Delegate Breakfast | Pan Am Room
0700-0830 | Communications Committee Meeting | Pan Am Room
0730-0830 | Membership Committee Meeting | Pan Am Room
| Professional Development Committee Meeting | Pan Am Room
| Partnerships & Advocacy Committee Meeting | Pan Am Room
0945-1500 | Tradeshow Open | Hall A
0830-0845 | Opening Ceremonies | Room 2 GH
0845-0945 | Keynote Address - Dr. Lloyd Axworthy | Room 2GH
0945-1045 | Track 1 - The Future is Here - Z8000 (Plenary) | Room 2GH
1045-1115 | Refreshment Break | Hall A
1115-1215 | Track 2A - Bill C45: What Does it Mean to You Personally? | Room 2G
| Track 2B - Mechanical Insulation: Why Should I Care? | Room 2H
1215-1500 | Lunch with Exhibitors / Afternoon Refreshment Break | Hall A
1500-1600 | Track 3A - The Future of Medical Gas: A Z7396.1-12 Roundtable | Room 2G
| Track 3B - Infrastructure Opportunities: Asking the Right Questions | Room 2H
1600-1700 | Track 4A - CSA Maintenance Requirements: What You NEED to Know | Room 2G
| Track 4B - Sustainability of “This Old House” | Room 2H
1800-1900 | President’s Reception | East Concourse, 1st Floor
1900-2400 | Gala Banquet and Awards Presentation | Room 2 South, 1st Floor
Monday September 26, 2011

0700-0830  Delegate Breakfast  
Sponsored by Stantec Architecture  GOLD SPONSOR
Pan Am Room

0830-0845  OPENING CEREMONIES
Room 2GH

WELCOME
Michael Hickey, President, Canadian Healthcare Engineering Society
Richard Lacoursière, Chair, Manitoba Organizing Committee

0845-0945  KEYNOTE ADDRESS
Sponsored by Honeywell Limited  KEY SPONSOR
Room 2GH

TRANSFORMING UNIVERSITY OF WINNIPEG INFRASTRUCTURE FOR A SUSTAINABLE AND HEALTHY COMMUNITY
Speaker:  Dr. Lloyd Axworthy, President & Vice Chancellor, University of Winnipeg, Winnipeg
Moderator:  Richard Lacoursière, Assistant Director, Facility Management, Deerlodge Centre, Winnipeg MB
Introduction:  Luis Rodrigues, Vice President, Energy Solutions, Honeywell Limited, Toronto ON

Dr. Lloyd Axworthy graduated in 1961 with a BA from United College (now The University of Winnipeg), and received an MA and PhD from Princeton in 1963 and 1972 respectively, in addition to honorary degrees from universities from Coast to Coast. Dr. Axworthy's political career spanned 27 years working locally, provincially, federally and internationally. He has brought his breadth of experience to the University with an eye to responsible leadership and social and environmentally sustainable growth. At the University, Dr. Axworthy is working to renew the campus and its downtown community with the view to making post-secondary education more accessible to inner city, Aboriginal, new immigrant and refugee students. In doing so, part of his focus has been to renew Winnipeg's downtown urban infrastructure. Many older buildings in Winnipeg's downtown core that had been given up as lost have now been revitalized into vibrant and vital University buildings. Dr. Axworthy will share his experiences in the field of urban renewal and how it applies in the healthcare realm. In addition, he will explore methods of delivery of healthcare in the years to come. Come hear his innovative and visionary approach!

0945-1045  TRACK 1
Room 2GH

THE FUTURE IS HERE:  Z8000
Speakers:  Gordon Burrill, PEng, FASHE, CHFM, CHC, President, Teegor Consulting, Fredericton
Mike Keen, PEng, MBA, Project Director, St. Michael's Hospital, Toronto
Jeffrey Kraegel, Project Manager, Canadian Standards Association, Mississauga
Moderator:  Richard Lacoursière, Assistant Director, Facility Management, Deerlodge Centre, Winnipeg

This presentation will introduce the new national standard for health care facility design and construction: Z8000 Canadian Health Care Facilities. Expected for publication in Fall 2011, this standard will influence every element of health care facility (HCF) planning, design, and construction in Canada. The presentation will give listeners the background they need to understand the new standard and how it will impact health care facility planning and design in Canada. Z8000 provides requirements and guidance for the planning, design, and construction of hospitals and other facilities in Canada. It is intended to be used by all facilities providing health care services regardless of type, size, location, or range of services. It was developed for use by architects, engineers, planning and project managers, contractors and builders, commissioning teams, facility managers, maintenance managers, infection prevention and control personnel, and other health care professionals.
Monday September 26, 2011

1045-1115  
REFRESHMENT BREAK

Sponsored by Precise Parklink - SILVER SPONSOR

1115-1215  
TWO CONCURRENT TRACKS 2A & 2B

TRACK 2A  
BILL C45: WHAT DOES IT MEAN TO YOU PERSONALLY?  
Room 2G

Sponsored by BGE Service & Supply  BRONZE SPONSOR

Speaker:  Darcy McPherson, Assistant Professor, Faculty of Law, University of Manitoba, Winnipeg

Moderator:  J.J. Knott, Director, Plant Operations, Norfolk General Hospital, Simcoe

Bill C-45 made changes to the federal Criminal Code. It introduced specific requirements for supervisors in all work places in Canada. Every employer and individual in positions of leadership is required under this law to protect the safety of their workers. We are all used to workplace health and safety. But Bill C-45 is criminal law. Therefore, what you don’t know could mean criminal convictions for both you and your employer. However, there are also some positives in this law for our members. This session will investigate the requirements for supervisors and managers to protect their workers in their health care buildings under Bill C-45. Come and hear what you need to know.

TRACK 2B  
MECHANICAL INSULATION: WHY SHOULD I CARE?  
Room 2H

Sponsored by Mikkelsen-Coward & Co. Ltd.  SILVER SPONSOR

Speaker:  Steve Clayman, BComm, Director, Energy Initiatives, Thermal Insulation Association of Canada, Toronto

Moderator:  Reynold Peters, Manager, Construction/Energy Management, South Eastern Health, Santé Sud -Est Inc., Steinbach

Pipe insulation? Duct insulation? Equipment insulation? Things that don’t light up, beep, come with touchscreens and remain mostly out-of sight? And no moving parts to wear out? What can be exciting about that? LEED and mechanical insulation; what’s that all about? We’ll find out how correctly specified and properly installed mechanical insulation impacts on energy consumption, greenhouse gas emissions and health and safety issues. We’ll talk about a no-cost approach to determining when mechanical systems require immediate attention. We’ll see how easy it is to “fix” seemingly complicated insulation deficiencies. We’ll talk about protecting personnel, condensation control and addressing mould growth. We’ll see how a free, downloadable software tool, called “3E Plus” can tie all of these elements together.

1215-1500  
LUNCH IN EXHIBIT HALL  
Hall A

1430-1500  
REFRESHMENT BREAK  
Hall A

Sponsored by Thomson Technology  SILVER SPONSOR

1500-1600  
TWO CONCURRENT TRACKS 3A & 3B

TRACK 3A  
THE FUTURE OF MEDICAL GAS: A Z7396.1-12 ROUNDTABLE  
Room 2G

Sponsored by Mikkelsen-Coward & Co. Ltd.  SILVER SPONSOR

Speakers:  Paul Edwards, Vice President, VitalAire Canada Inc., Edmonton

Jeff Smith, Compressed Gas Specialist, Hemisphere Engineering, Edmonton

Barry Hunt, President, Class 1 Inc., Cambridge

Moderator:  George Pankiw, Director, Facilities Planning & Redevelopment, Brant Community Healthcare System, Brantford

The next edition of the medical gas pipeline system standard (CSA Z7396.1-12) is
slated for release in 2012. Over the next few years four (4) standards may be in use across the country (Z305.1-92, Z7396.1-06, Z7396.1-09, Z7396.1-12 & the BNQ Standard in Quebec) We have assembled a panel of committee members to discuss the upcoming changes to the standard and provide information that users of the standard (facility managers, consultants, suppliers and installers) may find valuable, especially if they are planning future projects. Medical gas systems are critical for the treatment of patients; however, if they are not designed, installed or maintained properly they can create life-threatening situations. The committee responsible for this standard continuously monitors such situations and modifies the Standard accordingly. Our panel includes the chair of the CSA Z7396.1 technical subcommittee; CHES’s representative to the committee and other key committee members who can discuss and answer your questions. The Panel welcomes questions submitted prior to the conference and may incorporate them into the session. Topics such as AGSS/Scavenging, piping in new gas types into the facility, changes in schematics or tables etc. will be discussed along with submitted questions and questions from the session attendees.

**TRACK 3B**

**INFRASTRUCTURE OPPORTUNITIES: ASKING THE RIGHT QUESTIONS**

**Session sponsored by Trane**

**DIAMOND SPONSOR**

**Speakers:**
- **Nick Stark, PEng, LEED AP, Vice-President, Knowledge Management, H.H. Angus & Associates, Limited, Toronto**
- **Kim Spencer, PEng, LEED AP, Group Manager, H.H. Angus & Associates, Limited, Toronto**

**Moderator:**

There are many considerations when presented with the challenge of maintaining or creating infrastructure to support the growing need for health care in our communities. This challenge can also be an opportunity, particularly when the right questions are asked:
- When does it make sense to renovate/renew an existing facility versus creating a new facility?
- Approaches to flexibility/adaptability - how does one plan for the future and a truly sustainable facility?

1600-1700

**TWO CONCURRENT TRACKS 4A & 4B**

**TRACK 4A**

**CSA MAINTENANCE REQUIREMENTS: WHAT YOU NEED TO KNOW**

**Session sponsored by Camfill Farr**

**BRONZE SPONSOR**

**Speaker:**
- **Gordon Burrill, PEng, FASHE, CHFM, CHC, President, Teegor Consulting, Fredericton**

**Moderator:**
- **J.J. Knott, Director, Plant Operations, Norfolk General Hospital, Simcoe**

CHES members are constantly challenged to meet legislated and code requirements while working within their budgets. This session will focus primarily on the maintenance aspects of Canadian Standards Association (CSA) standards. While often cited during the design stages, CSA standards are often forgotten after health care buildings have been built and their front doors are open to the public. The newest ventilation and medical gasses standards issued by CSA both contain significant changes in their maintenance chapters which are often referenced by Provincial legislation. Facility Managers are faced with hundreds of different documents each day, and sorting through all of the language can be a daunting task. Come and find out what you NEED to know to keep your facility working safely and efficiently.
SUSTAINABILITY OF “THIS OLD HOUSE”

Session sponsored by Williams Engineering  SILVER SPONSOR

Speaker:  Craig Doerksen, CFM, CEM, MFM, PEng, Divisional Director, Facility Management, Health Sciences Centre, Winnipeg

Moderator:  Tom Still, Manager of Facility Services, Seven Oaks General Hospital, Winnipeg

This presentation will focus on an overall strategy of managing an existing portfolio of hospital buildings. The key factors in an overall sustainable infrastructure plan include:

• What features must be paramount in new construction or renovation
• How does a facility determine these features (i.e. what is our space life cycle/turnover?, what is the facility funding model for infrastructure renewal, what is the likelihood of reprogramming, etc.)
• How does a site determine the preventive maintenance model (and budgets) necessary to match the life cycle, usage and turnover of the installed infrastructure with the infrastructure renewal funding to the reprogramming/renovation of space.
• How do we maintain our new technological systems - where preventive maintenance does not really extend their life and may not even enhance reliability?

Monday Evening

President’s Reception and Gala Banquet
Winnipeg Convention Centre

18:00-19:00
President’s Reception
East Concourse, 1st Floor, Winnipeg Convention Centre

• Sponsored by Tremco Canada PLATINUM SPONSOR

19:00-24:00
Gala Banquet & Presentation of CHES Awards
Room 2 South, 1st Floor, Winnipeg Convention Centre

BANQUET
• Sponsored by Johnson Controls Inc. DIAMOND SPONSOR

ENTERTAINMENT
• Sponsored by Direct Energy  DIAMOND SPONSOR
# Day at a Glance

## Tuesday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Locale in Convention Centre</th>
</tr>
</thead>
<tbody>
<tr>
<td>0700-1500</td>
<td>Registration</td>
<td>Foyer</td>
</tr>
<tr>
<td>0700-0830</td>
<td>Delegate Breakfast</td>
<td>Pan Am Room</td>
</tr>
<tr>
<td>0800-0830</td>
<td>CHES Manitoba Chapter AGM</td>
<td>Room 16</td>
</tr>
<tr>
<td>0830-0900</td>
<td>CHES Board Meeting with Exhibitors</td>
<td>Room 16</td>
</tr>
<tr>
<td>0830-0930</td>
<td>Track 5: It Starts with a Plan: Facility Condition Indexing</td>
<td>Room 2GH</td>
</tr>
<tr>
<td>0930-1030</td>
<td>CHES National Annual General Meeting</td>
<td>Room 2GH</td>
</tr>
<tr>
<td>0930-1315</td>
<td>Tradeshow Open</td>
<td>Hall A</td>
</tr>
<tr>
<td>1030-1100</td>
<td>Refreshment Break</td>
<td>Hall A</td>
</tr>
<tr>
<td>1100-1315</td>
<td>Visit Exhibits / Lunch in Exhibit Hall / Draw Prizes</td>
<td>Hall A</td>
</tr>
<tr>
<td>1315</td>
<td>Exhibits close</td>
<td></td>
</tr>
<tr>
<td>1315-1415</td>
<td>Track 6A: Managing Infrastructure Risk in Healthcare Facilities</td>
<td>Room 2G</td>
</tr>
<tr>
<td></td>
<td>Track 6B: Manitoba Hydro Place: A Climatically Responsive Design</td>
<td>Room 2H</td>
</tr>
<tr>
<td>1415-1515</td>
<td>Track 7A: Living with LEED: Life in a LEED Gold Hospital</td>
<td>Room 2G</td>
</tr>
<tr>
<td></td>
<td>Track 7B: Getting Roofing Right</td>
<td>Room 2H</td>
</tr>
<tr>
<td>1515-1545</td>
<td>Refreshment Break</td>
<td>Foyer</td>
</tr>
<tr>
<td>1545-1645</td>
<td>Is It Time for the Wrecking Ball?</td>
<td>Room 2GH</td>
</tr>
<tr>
<td>1645-1700</td>
<td>Closing Remarks</td>
<td>Room 2GH</td>
</tr>
<tr>
<td>1700-1900</td>
<td>CHS 2011-12 Board of Directors Meeting</td>
<td>EQ3</td>
</tr>
</tbody>
</table>
Tuesday September 27, 2011

0700-0830 Delegate Breakfast
   Sponsored by Canadian Standards Association  GOLD SPONSOR
   Pan Am Room

0800-0830 CHES MANITOBA CHAPTER AGM  Room 16
0830-0900 CHES Board/Exhibitor Meeting  Room 16
0830-0930 TRACK 5
   IT STARTS WITH A PLAN: FACILITY CONDITION INDEXING  Room 2GH
   Session sponsored by Trane  DIAMOND SPONSOR
   Speaker: Susan Anson, MBA, General Manager, VFA Canada Corporation, Burnaby
   Moderator: Ron Durocher, Project Manager, Hotel Dieu Grace Hospital, Windsor
   If you have ever wondered what a Facility Condition Index (FCI) is or how it can help you to manage the physical assets in your care, Ms. Anson is the right person to answer that question. She will explain how the FCI metric is calculated, the key facility data that you need to generate it, and how knowing the FCI for a building or for a portfolio enables responsible decisions in managing your healthcare facilities. In her role with VFA Canada Corporation, Ms. Anson has been involved in ambitious projects providing condition assessments and FCI analysis to the health facilities inventory from coast to coast in Canada. This session will demonstrate the value of the FCI as a decision-making tool and help to pass along the vast firsthand knowledge of the process, its benefits and its limitations.

0930-1030 CHES NATIONAL ANNUAL GENERAL MEETING  Room 2GH
1030-1100 REFRESHMENT BREAK  Hall A
   Sponsored by VFA Canada Corporation  SILVER SPONSOR

1100-1315 LUNCH / TRADESHOW / DRAW PRIZES  Hall A

1315-1415 TWO CONCURRENT SESSIONS 6A & 6B
   TRACK 6A MANAGING INFRASTRUCTURE RISK IN HEALTHCARE FACILITIES  Room 2G
   Sponsored by Trane  DIAMOND SPONSOR
   Speakers: Jay Trethewey, AScT, Director, Facilities Maintenance & Operation, Facilities Management-Lower Mainland, Vancouver
            David Baxter, KPMG, Vancouver
   Moderator: Richard Lacoursière, Assistant Director, Facility Management, Deerlodge Centre, Winnipeg
   Sustaining the infrastructure of health care facilities is not a simple task. Facility owners and operators are responsible for old and decaying buildings with relatively basic infrastructure, new buildings infused with the latest high-tech systems, and everything in between. Funding is a constant issue. The risks of infrastructure failure - risks to staff, public, patients, care delivery - are real and significant. And all of this is managed within the contexts of increasing regulation, and expanding stakeholder expectations. How do we manage these competing demands effectively, sustainably, transparently? The Facilities Team at Vancouver General Hospital, with support from the Vancouver Coastal Health executives, Risk management and KPMG, has developed a system to achieve these goals. The objective of the presentation is to describe this system; how it was conceived, developed and implemented; and is now being sustained and expanded to other facilities within the health authority.
Tuesday September 27, 2011

TRACK 6B

MANITOBA HYDRO PLACE: A CLIMATICALLY RESPONSIVE DESIGN

Speaker: Tom Akerstream, Energy Advisor and Manager, Head Office Facilities, Manitoba Hydro, Winnipeg

Moderator: Tom Still, Manager of Facility Services, Seven Oaks General Hospital, Winnipeg

Manitoba Hydro Place is a 22 story, 65,000 m² corporate headquarters located in downtown Winnipeg. The building is the most energy efficient, sustainable office tower in North America. As a climatically responsive design the building literally operates as a living entity; reacting to climatic conditions to optimize natural lighting, natural ventilation and low grade solar thermal energy. Most importantly, the building offers its occupants the highest quality of space with 100% fresh air every 20 minutes and direct access to outside views. Tom Akerstream will describe how this unique building was designed, works and what sets it apart from all other office towers.

1415-1515

TWO CONCURRENT SESSIONS 7A & 7B

TRACK 7A

LIVING WITH LEED: LIFE IN A LEED GOLD HOSPITAL

Sponsored by LM Architectural Group  BRONZE SPONSOR

Speaker: Richard Beam, System Director, Construction & Sustainability, Office of Supply Management, Providence Health Services, Renton WA

Moderator: Gordon Burrill, PEng, FASHE,CHFM,CHC, President, Teegor Consulting, Fredericton

Providence Health & Services opened up the new Millennium with a decision to build their first ‘Green Field’ hospital in 36 years, to be located in the community of Newberg, Oregon, USA. The 41 Bed, $US 56 Million replacement hospital, seemed ideal to challenge the design & construction team to step up to a new standard in sustainable construction called LEED. For several years, team members had been exposed to LEED concepts at industry conferences, seminars, & trade articles which prompted them to ask, “Can we apply these ‘Green Principles’ to the Newberg project?” They took the plunge. This summer marked the 5th Anniversary of the completion of the first LEED Gold Hospital. Richard’s presentation will take you on their journey leading up to the opening of Providence Newberg, as well as a retrospective on what it is like “Living with LEED”. Health care professionals everywhere are asking themselves, “Is it worth the premium?” “What is that premium?” “Was the vision for a sustainable hospital met?” “What does the community think of their new ‘Green’ hospital?” “How are employees, patients, and visitors reacting to this unique facility?” “Would you build another one?” Please join Richard in a lively review of this iconic hospital and decide for yourself if a LEED Gold hospital is in your future!

TRACK 7B

GETTING ROOFING RIGHT

Sponsored by Williams Engineering  SILVER SPONSOR

Speaker: Derek Semeniuk, Consultant Public Sector Solutions-Roofing, Tremco Canada


Sustainable Roofing can be achieved through durable designs, proper preventive maintenance and Proactive Roof Asset Management. A significant portion of maintaining any healthcare facility is ensuring the integrity of the roof membrane; but all too often once the roof has been installed it is quickly forgotten about until a leak occurs. Roofing is one
of the most expensive assets any facility owns and choosing the right roof can be a daunting task. Choosing the wrong roof can lead to premature failure, mold problems, health issues, liability issues and significant increases in operating costs trying to keep that system watertight. These costs usually far outweigh the costs of designing a more durable solution from the beginning. Mr. Semeniuk is a leader in roofing technologies and will provide an informative discussion on roofing systems which are influencing designs today, review the essential requirement of Proactive Roof Asset Management and how regular Preventive Maintenance can help ensure the roofs you currently own are not costing you more than they have to.

1515-1545 REFRESHMENT BREAK Foyer

1545-1645 TRACK 8

IS IT TIME FOR THE WRECKING BALL? Room 2GH

Sponsored by Trane DIAMOND SPONSOR

Speakers: Susan Anson, MBA, General Manager, VFA Canada Corporation, Burnaby
Norm Blackie, Acting Executive Director, Capital Planning Branch, Provincial Programs Division, Manitoba Health, Winnipeg
Phil Langford, Riverport Nova Scotia

Moderator: Michael Hickey, Director, Facilities Management & Support, Northern Health Authority, University Hospital of Northern BC, Prince George

With an aging healthcare infrastructure from coast to coast, it can be difficult to determine whether it is more cost effective to replace these aging buildings or invest in their redevelopment. Please join our esteemed panel as they approach the topic of “replace or renovate”. Our panelist range from condition assessors, to owners to operators and utility supplier and are sure to provide for a balanced and diversified view of the question. The discussion is sure to give you ideas about whether to renovate or rebuild those old buildings that are so vital to the success of the delivery of healthcare.

1645-1700 CLOSING REMARKS Room 2GH

Richard Lacoursière, Chair, 2011 Organizing Committee
J.J. Knott, President, Canadian Healthcare Engineering Society
Speakers

Susan Anson, MBA

As General Manager of VFA Canada Corporation, Susan Anson brings over 20 years of business enterprise and capital planning experience. She has successfully provided leadership to facilitate the development of strategies to assist organizations in managing their capital planning requirements. Susan provides support to government agencies by serving as Secretariat to provincial capital planning steering and advisory committees for the provinces of British Columbia (Higher Education + K-12), Saskatchewan Ministry of Health and Ontario Ministry of Health and Long Term Care.

Prior to joining VFA, Susan was responsible for overseeing the inventory and assessment of healthcare properties in the province of British Columbia on behalf of the Ministry of Health Services. She has served as Owner’s Agent and senior planning positions for several health care institutions undertaking multi-million dollar capital planning requirements. Susan holds a Masters Degree in Business Administration and authored several publications including “Accurate Data, Consistent Interpretation, Critical for Capital Planning” published in the Canadian Property Management magazine.

Tom Akerstream

Tom is the Corporate Facilities Manager at Manitoba Hydro. He has worked in the field of energy management for over 30 years. He joined Manitoba Hydro 20 years ago to create the highly successful DSM initiative Power Smart.

Most recently, as Energy Advisor, Tom was responsible for ensuring Manitoba Hydro’s new Corporate Headquarters, Manitoba Hydro Place, is the most energy efficient and sustainable office tower in North America.

Tom has a Bachelor of Environmental Studies, a Bachelor of Architecture and a Masters of Architecture. Thomas was a founding Director of the Canadian Green Building Council and was recently awarded the prestigious Award of Merit by CSA for his work in energy efficiency and sustainability.

David Baxter

David Baxter joined KPMG after more than 15 years of management advisory and business experience. David specializes in developing and assessing enterprise and operational risk management processes and controls, corporate governance, regulatory risk and compliance. In addition to an MBA in Risk Management, a PMP certification, and a Lean Six Sigma Black Belt, David has extensive ERM experience - For example, he has developed and implemented ISO/CSA 31000 compliant ERM programs and conducted risk assessments, in both public and private sector; aligned risk and governance principals into strategic planning and operations; developed methodology, policy, procedures, and tools; introduced operational and strategic risk assessment processes; and implemented cross-functional performance reporting.

Prior to KPMG, David held leadership positions in fortune 100 companies and public sector agencies. Most recently, David was the head of Enterprise Risk Management for Provincial Health Services Authority in BC.

David is currently a Director in KPMG’s Advisory Services practice, and has worked with public and private sector clients across Canada and the US.

Richard Beam

Richard Beam, MBA, System Director, Construction & Sustainability, Providence Health & Services, has more than 34 years experience in energy and construction related fields. Richard’s extensive background includes energy & mechanical design and applications engineering; construction and contract management and electric utility account management. He has served as Providence’s Energy Manager for the last 17 years, working with their facilities & construction directors, utility companies, and energy service providers in the western United States.

Mr. Beam’s educational background is in the disciplines of mechanical engineering, communications, and business. The Association of Energy Engineers honored Richard as their 2007-08 Energy Manager of the Year for their Western United States Region. He was the 2004 Association of
Speakers

Professional Energy Managers State of Oregon Energy Manager of the Year.

Providence was honored to receive the Environmental Protection Agency’s 2009 ENERGY STAR Partner of the Year for Sustained Excellence in Energy Management. Providence was also the 2004 and 2008 recipient of that honor. Richard served for six years on the Board of Directors of the NW Energy Efficiency Alliance and is currently on the USDOE Hospital Energy Alliance Steering Committee.

Norman K. Blackie, B.Arch., D.Arch.

Norman has been involved in the practice of architecture and health facility planning for over 30 years since graduating with a Bachelor of Architecture degree from the University of Manitoba. He also holds a Doctor of Architecture degree from the University of Michigan where he was a member of National Policy Centre on Housing and Living Arrangements for Older Americans and design instructor, College of Architecture and Urban Planning, the University of Michigan, Ann Arbor Michigan.

Norman is currently the Acting Executive Director of the Capital Planning Branch, Provincial Programs and Services Division, Manitoba Health. In this position he provides leadership and support to the Branch of the Ministry that oversees the development and implementation of the Provincial Health Capital Program and advises government on infrastructure and related policy and program requirements in support of health objectives for Manitobans. Norman has been with Manitoba Health for the past 18 years; the majority of that time has been as a member of the Capital Planning Branch.

Prior to join Manitoba Health, Norman was a partner in the architectural firm of GEREMIA BLACKIE which specialized in the field of historic architectural preservation. Notable projects of the firm included the restoration of the VIA Rail Union Station in Winnipeg, St. Andrews Anglican Church on the Red in the RM of St. Clements and the Hecla Island Heritage Village, Hecla Island, Manitoba.

Teaching and research have been another aspect of Norman’s career both at the University of Michigan and University of Manitoba. At the University of Michigan, Norman has held positions as Assistant Professor (Sessional) and Adjunct Professor, Department of Family Studies, Faculty of Human Ecology as well as Instructor, Continuing Education Division (Certificate in Gerontology Program). Norman has written, edited or made contributions to over nine publications on the subject of Housing for Older Persons.

Gordon Burrill, PEng, FASHE, CHFM, CHC

Gordon D. Burrill is President of Teegor Consulting Inc., an international consulting firm specializing in healthcare engineering and construction. He spent 13 years as a design engineer, followed by 7 years as the Director of the Engineering for a New Brunswick Health Authority in Canada before branching out to Teegor Consulting Inc. in August of 2004. He is a Registered Professional Engineer with 25 years experience in the design, construction, operations and maintenance of healthcare facilities. He is member of Standing Committee on Building and Plumbing Systems to the Canadian Commission on Building and Fire Codes, a member of the Canadian Society for Civil Engineering, a member of the National Fire Protection Association’s Health Care Section, a former Council Member of the International Federation for Hospital Engineers and Past President of the Canadian Healthcare Engineering Society. Gordon is currently the vice-chair of the Canadian Standards Association’s Technical Committee for Health Care Facility Engineering and Physical Plant, chair of their Technical Subcommittee for Infection Control during Construction, Renovation or Maintenance of Health Care Facilities and vice-chair of their Technical Subcommittee for Design and Construction of Canadian Healthcare Facilities.

Steve Clayman

• B.Com-Business Major.
• National Insulation Association (NIA) Certified Insulation Energy Appraiser.
• Director of Energy Initiatives - Thermal Insulation Association of Canada.
  • Raising the awareness of mechanical insulation.
  • Federal Government communications.
  • Related association (conferences, AGM’s and independent groups) presentations.
  • Technical resource.
• Former Board of Directors member, North American Insulation Manufacturers Association (NAIMA) having served on the Government Affairs, Steering and Technical Committees.
• More than 30 years in various sales, marketing and technical responsibilities related to industrial/commercial mechanical insulation.
• Memberships:
Speakers

- American Society of Heating Refrigeration and Air Conditioning Engineers (ASHRAE).
- Canada Green Building Council (CaGBC) - Toronto Chapter.
- Construction Specifications Canada (CSC).

Craig Doerksen, CFM, CEM, MFM, PEng.

Craig has been the Divisional Director of Facility Management at Health Sciences Centre Winnipeg since 2004. In this role he is responsible for the strategic, tactical and operational management of the facility management division including maintenance, housekeeping, security, technical support, engineering, energy management and central energy plant services. An FM staff of over 500 meets the needs of this 850 bed tertiary care, teaching facility, spread over 32 acres in the core area of Winnipeg, in 28 buildings, ranging in age from 1898 to 2007. Prior to becoming the FM Divisional Director, Craig held various management and support positions within the FM Division at HSC Winnipeg since 1991. Prior to this he worked in consulting and services to healthcare facilities on medical gas systems throughout Canada and the US.

Craig has a B.S. in Energy Systems Engineering from Arizona State University, and a Masters in Facility Management from the University of Manitoba. Craig is a registered professional engineer in the Province of Manitoba, and also maintains designations as a Certified Facility Manager through IFMA, and a Certified Energy Management through Association of Energy Engineers. Craig also serves as the volunteer Executive Director of Manhattan Beach Retreat Centre, a 100 acre Christian camping and retreat centre in southwest Manitoba which provides families, youth, children, seniors, school and community groups with year round camping and retreat centre facilities.

Paul Edwards

Paul has been involved in the Canadian medical gases industry since 1991, holding various roles including territory sales, product management, and sales management. Today Paul oversees the national sales activities for Air Liquide Medical, Canada’s only fully integrated medical gases manufacturer and turnkey pipeline services firm. Currently a member of the CSA Technical Subcommittee Z251.20 for medical gases, and with participation in other industry regulatory bodies, Paul brings a gas manufacturer and a pipeline products distribution perspective to this panel discussion on the future of medical gas systems.

Barry Hunt

Barry Hunt is the President & CEO of Class 1 Inc., a leading Canadian manufacturer, installer and service provider to Healthcare Facilities specializing in medical gas equipment and halogenated drug recovery. Barry received his Honour’s degree in Biological and Biomedical Sciences from the University of Guelph and studied Post-Degree Sciences at the University of Waterloo.

Barry worked for 10 years in the labs at Grand River Hospital, and 7 years in Anaesthesia, Respiratory, and Medical Gas sales, and product and market development with Medigas and Praxair before founding Class 1 in 1995.

Barry has been instrumental in the design, development and implementation of many new products and services for Health Care Facilities. He holds 3 patents and has 9 patents pending.

Barry is Chair of CSA’s Technical Subcommittee on Medical Gases, a member of CSA’s Strategic Steering Committee on Healthcare Technology, a member of CSA’s Perioperative Committee, a member of CSA’s Technical Subcommittee on Plume Scavenging, and a member of CGA’s Canadian Medical Gases and Devices Committee. Barry also represents Canada at ISO SC6 (Medical Gases) and SC8 (Suction Devices) and is Chair of the Organizing Committee for the 2011 Plenary meeting.

Barry conducts many training seminars for consultants and professional organizations. He has long been a member and corporate supporter of CHES and is often a guest speaker at national and regional conferences. He is past Chair of the CHES National Conference, and a past member of the Professional Development Committee and several CHES National Conference Subcommittees.
Speakers

Michael Keen, PEng, MBA

Michael Keen is the Project Director of the Planning Department at St. Michael’s Hospital, the third largest Hospital in Toronto. He graduated from the University of Waterloo with a Bachelor of Applied Science in Mechanical Engineering and also completed an Executive Master’s in Business Administration from Queen’s University.

Michael has been an employee of St. Michael’s Hospital for 18 years. From 1995-2005 he was the Director of Engineering and Plant Services and then took the role of Project Director of the Planning Department. Michael recently led the successful development and construction of the Li Ka Shing Knowledge Institute.

Michael is the Chair of Canadian Standards Association’s (CSA) Technical Committee for Healthcare Facilities, as well as the Chair of the new Standard for Health Care Facilities (CSA Z8000). He is also the Chair for the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Technical Committee 9.6 for Healthcare.

Phil Langford, PEng

Phil has had a varied career in Project and Facility management both in the private and government sectors. He has been responsible first as a design engineer and then in successive senior management positions regarding all aspects of project management and operational support services.

He has been involved in projects related to the food processing industry, seaweed extraction plants, marine related, utility services and health care to name a few. He has held senior positions related to planning, investments and divestures of major assets as well as running his own small business. His latest senior position was as Vice President Operations for a District Health Authority, which he held for the past 11 years prior to his retirement in July of 2010. He believes in accepting challenges, building teams to solve those challenges and ensuring that those teams have the resources to expand their professional development.

Jeffrey Kraegel

Jeffrey Kraegel is a Project Manager with the Health Care and Community Safety Program at the Canadian Standards Association. In his 15 years at CSA he has managed technical committees and developed standards in a wide range of areas, including blood management, medical gas systems, and medical device reprocessing.

Jeffrey currently manages the CSA standards for health care facility engineering and physical plant, including those for plumbing, HVAC, and infection control during construction, renovation, and maintenance of health care facilities. Over the past two years he has worked with the CSA technical committee to complete the new standard for design and construction of Canadian health care facilities, Z8000.

Darcy MacPherson

Darcy L. MacPherson is an Associate Professor at the Faculty of Law, University of Manitoba in Winnipeg. He was appointed to this position in July, 2009, after seven years as an Assistant Professor at the same institution. Prior to this appointment, Professor MacPherson was an Assistant Professor at the Faculty of Law, University of Windsor, in Windsor, Ontario, from July 2001 to June 2002. He has taught courses in agency law, administrative law, the law of contracts, constitutional law, criminal law, secured transactions, and the law of corporations. His current research interests include: criminal liability of business organizations, directors’ duties, secured transactions, and disability rights.
George Pankiw, PEng, CHFM, SASHE

George graduated from the Royal Military College of Canada with a Civil Engineering degree. He spent twenty years in the Canadian Forces as a Military Engineer working in various roles. George was the Facilities Manager at the Metro Toronto Zoo, one of the world’s largest zoos. He has also spent time working as an engineer for the County of Lanark.

George began his healthcare experience as the Director of Facilities with the Perth & Smiths Falls District Hospital in Perth, Ontario. He then moved on to become the Corporate Manager Engineering Services with Grey Bruce Health Services in Owen Sound, Ontario. Presently, George is the Director Facilities Planning, Redevelopment & Engineering for the Brant Community Healthcare System, a 330-bed hospital system in Brantford, Ontario.

He is registered Professional Engineer in the Province of Ontario, and holds the Certified Healthcare Facility Manager designation from the AHA, the first in Canada to do so. George is a Senior ASHE member. He has been actively involved in both CHES and ASHE for the past 10 years including:

**CHES**
- Chairperson Professional Development Committee, where he lead the development of the recent CHES Medical Gas Pipeline System Course
- Instructor for the Canadian Healthcare Construction Course
- CHES Rep to CSA Technical Sub-Committee on Medical Gase Pipeline Systems

**ASHE**
- NFPA 99 Gas Distribution workgroup Revision Committee

George is also an instructor for CSA courses in CSA Z317.13 Infection Control during Construction, Renovation and Maintenance in Healthcare Facilities.

George is actively involved in sports as the Past-President of the Gloucester Griffins Junior Lacrosse team and is a certified level 3 Box Lacrosse Referee.

Derek Semeniuk, CTR, GRP, RRO

Derek Semeniuk works with design professionals such as architects, engineers, specifiers, facility managers and building owners across Western Canada to educate them about all options of Low Slope roofing systems. One of his primary roles is the consultation & preparation of specifications customized for the project at hand as it is extremely important to ensure all design considerations have been contemplated in order for the correct durable solution to be developed. Derek also regularly speaks and conducts seminars across Canada including recent presentations for the Alberta Architects Association, Alberta Roofing Contractors Association, and the Council of Educational Facility Planners reviewing custom designed roofing options. Cold Process Roofing, Garden Roofs, Sustainable Roofing, and LEED certified solutions are some of the topics that Derek presents about.

Derek is passionate about designing long term, life cycle; durable and sustainable roofing and waterproofing solutions to ensure a better environment can be achieved for our children. With sound technical advice, and utilizing better products and designs specific for the job at hand the building owner, operator, designer and environment will all be further ahead.

Derek has over 17 years of various industry experience with the last 7 years specializing in low slope roofing. He has gone through extensive training from the Tremco Roofing University Program, as well as continuously upgrading his skills by taking recognized roofing and industry courses on all facets of the building envelop. Conducted in excess of 900 comprehensive roof surveys Certified Technical Representative (CTR) from Construction Specifications Canada (CSC) Green Roof Professional (GRP) from Green Roofs for Healthy Cities. Registered Roof Observer (RRO) from Roofing Consultants Institute (RCI). Finalizing his Sustainable Building Advisor designation this Fall of 2011.

Professional Affiliations and Memberships include the Canadian Health Care Engineering Society (CHES) Construction Specifications Canada (CSC) Alberta & National Chapters Roofing Consultants Institute (RCI) Canadian Green Building Council (CaGBC) Green Roofs for Healthy Cities (GRHC) Alberta Roofing Contractors Association (ARCA) Alberta Building Envelope Council (ABEC) School Plant Officials Society of Alberta (SPOSA)

Derek has a Bachelor of Management Degree from the University of Lethbridge Alberta Construction
Speakers


Jeff Smith, BA

Jeff has been involved in Healthcare and Medical Gas Projects for the past 20 years in roles relating to consultant, sales, product management/marketing, business development, and installation services relating to medical gas systems, specialty gases, and cryogenics. He has been active in the CSA Standards relating to Medical Gas Systems since the early 1990’s and currently participates as a member of the TSC for Z7396.1.

Presently, Jeff works for Hemisphere Engineering as a Compressed Gas Specialist/Business Development Specialist which includes remaining active in the Healthcare field. Jeff has developed training courses and presentations focusing on medical gases designed to provide a better understanding and heighten the education for those who either design, install, or are involved with this important life safety delivery system.

Nick Stark

Nick Stark joined the consulting engineering firm of H.H. Angus & Associates in 1978 as a graduate in Mechanical Engineering. He gained experience in Toronto, Calgary and London, England before returning to the Toronto office in 1987 as a Principal. He is a recognized expert in the design of mechanical systems in health care facilities. Nick is currently VP Knowledge Management as well as spearheading the P3 work at H.H. Angus.

Nick has participated in the design of projects at over 50 health care facilities across Canada and abroad including recent major facilities for Thunder Bay, North Bay, Royal Jubilee in Victoria, and CHUM in Montreal.

He has taken the initiative to participate actively in the development of Codes and Standards as they relate to health care. He is active as chair of CSA 317.2, Special Requirements for HVAC Systems in Health Care Facilities, and a vice chair of the upcoming Z8000 Canadian Health Care Facilities.

Kim Spencer

Kim is an experienced mechanical engineer and project manager who has been with H.H. Angus & Associates for 12 years. She has significant experience in health care project design and delivery, ranging from complex renovations at existing facilities, to greenfield regional hospitals, to mechanical infrastructure upgrades. Many of these projects have been delivered through construction management or design-build-finance-maintain methods.

In January 2006, Kim relocated to Calgary as a member of the team re-opening the Western Canada office. After four years in Alberta, Kim moved back to Toronto to continue developing opportunities and leading projects in H.H. Angus’ Health division.

Kim is a member of the CSA Z317.13 Technical Subcommittee on Infection Control during Construction/Renovation of Health Care Facilities.

Jay Tretheway

Jay Trethewey joined Vancouver Coastal Health after 20 years in Building Services Consulting designing mechanical systems for health care facilities.

Since starting at the Vancouver General Hospital site in 1998, Jay has served in several managerial roles with operational responsibilities for staff and facilities, focusing on primary infrastructure - including large-scale steam, chilled water, and essential power generation - and on tertiary applications including operating theatres, laboratories, controlled pressure environments, data centres, life safety systems, medical gas/air/vacuum systems, etc.

Beginning in 2007, Jay spearheaded the development of risk management systems within the Facilities Maintenance & Operations group at VGH.

Jay is currently a Director of Facilities Maintenance & Operations with the BC Lower Mainland Facilities Management team.
Does your water treatment program save energy?

Let Chem-Aqua put the power of effective water treatment to work for you.

Chem-Aqua’s innovative solutions include:

- Programs to reduce energy and water usage
- Performance enhancing equipment solutions
- Programs to ensure continuous operation
- Resourcefully Green® technologies
- SMARTReport™ System
- HandiChem™ Solid Water Treatment System
- ECO Bionics® BIO-Amp™ Biological Treatment

Let Chem-Aqua put the power of effective water treatment to work for you.

Contact Chem-Aqua today for a free evaluation of your system.
Barry Laswick: 800.268.0838 ext. 216, barry.laswick@nch.com