

## President's Message

*By Carla Spriggs*

Please join us this month beginning at Four Season's Restaurant for the tour of Arcola Community School. Alana has arranged for Adeel Choudhry to give us a brief tech session on the controls of the school as he works for Reliable Controls, the controls contractor for the school we will be touring. After supper, Greg Flutter from MacPherson Engineering will give us a brief design overview before he leads us on a tour of the school.

Kris has issued the chapter invoices for this year so if you have not received one please contact him at [pockett@accesscomm.ca](mailto:pockett@accesscomm.ca) or myself at [cspriggs@hdaeng.com](mailto:cspriggs@hdaeng.com) and we will have one promptly issued for you.

Jared Larsen our student activities chair has organized an after school program with elementary children to take place in January and February. Jared has chosen an inner city school to focus on this year as they have a group of interested students. Jared would like to find some corporate sponsors for these events so he is able to supply supper and some classroom supplies for them. Someone on the board will be contacting you to ask if you would like to sponsor one of these events. Jared has done a preliminary session and it went really well and the kids were very enthusiastic.

Jared is also hosting a laser tag event with University Engineering students and YEA members. This will create a good opportunity for our members to interact with the future Engineers in our community. Please see Facebook for time, location and costs.

### Meeting Notice

**Wednesday, November 14<sup>th</sup>, 2012**  
**Arcola Community School**  
**Building Tour**

#### **4Seasons Restaurant**

909 Arcola Ave. E, Regina Sk

- 5:15 – Cocktails
- 5:45 – Tech Talk
- 6:00 – Supper
- 6:30 – ASHRAE Chapter Meeting  
and Presentation
- 7:00- School Tour

### Upcoming Events

December 2012:  
*Christmas Social*

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## Pile of Bones

### President's Message Continued

For December Wayne Tkach has organized our Christmas social for December the 12<sup>th</sup> for supper at Beer Brothers and The Wizard of Oz at the Globe Theater. I look forward to having a little bit of season cheer with you all.

Please join us for the Arcola Community School Tour on November the 14<sup>th</sup>.



### Seventh International Cold Climate HVAC Conference



In Flanders Fields  
—  
In Flanders fields the poppies grow  
Between the crosses, row on row  
That mark our place: and in the sky  
The larks, still bravely singing, fly  
Scarce heard amid the guns below.  
  
We are the Dead. Short days ago  
We lived, felt dawn, saw sunset glow,  
Loved, and were loved, and now we lie  
In Flanders fields.  
  
Take up our quarrel with the foe:  
To you from failing hands we throw  
The torch; be yours to hold it high!  
If ye break faith with us who die  
We shall not sleep, though poppies grow  
In Flanders fields.

John McCrae



## 2012-2013 Meetings and Events

November 14, 2012

*Arcola Community School Building Tour*

November 20, 2012

*Member and University Laser Tag*

December 12, 2012:

*Christmas Social*

*Beer Bros. & Globe Theatre – Wizard of Oz*

January 9, 2013

*Speaker: Mike Viale*

*AHRI 1230: Variable Refrigerant Volume Systems*

January 26-30, 2013

*ASHRAE Winter Conference & AHR Expo  
in Dallas, TX*

February 13, 2013

*Speaker: To be confirmed*

March 27, 2013

*ASHRAE Regina 50<sup>th</sup> Anniversary Celebration  
@ Regina Royal Golf Course*

April 10, 2013

*Student Night*

April 18, 2013

*ASHRAE Webcast : Assessing Building Energy Performance  
@ 1:00-4:00 pm EDT*

May 2-4, 2013

*Region XI CRC in Vancouver, B.C.*

May 15, 2013

*Speaker: TBD*

*Airflow Management Best Practices for Data Centres*

June 2013

*ASHRAE Research Golf Tournament*

**Its time to get your "LAE-ZER" on!**



**What:**  
Laser tag, Beer & Pizza, Networking

**Where:**  
Laser Quest Regina  
10A Hesse Bay

**When:**  
Tuesday Nov 20<sup>th</sup>,  
6:00 pm

**Who:**  
10 Engineering Students  
(\$10 ea.) & 10 ASHRAE  
industry members (\$20  
ea.)

**ASHRAE Regina Chapter**

**Come out and pair up with an  
Industry member to be the best team.**

**It will be Frickin' Fun.**

**To get on the list of ten, Email Jared → [j.larson@mac-eng.ca](mailto:j.larson@mac-eng.ca)**

**Payment will be collected by Nicole from R.E.S.S. → [nicki\\_b\\_2005@hotmail.com](mailto:nicki_b_2005@hotmail.com)**

**Find us on Facebook <http://www.facebook.com/AshraeReginaSaskatchewanStudentChapter>**

**2013 ASHRAE  
Winter Conference  
and AHR Expo**

Jan. 26-30/Jan. 28-30  
**Dallas, TX**





**www.ashrae.org/dallas**

## Committee Chair Reports

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### Programs

*by Alana Yip*

Thank you to those who came out last month to hear ASHRAE Distinguished Lecturer, Sheila Hayter, present to us on Integrating Renewable Energy into Buildings. It was very informative and she gave us some good options to consider.

This month we have our building tour of Arcola Community School. We are meeting at the 4 Seasons, 909 Arcola Ave. E., (corner of Arcola and Park St.) for dinner and a brief presentation about the mechanical systems at the school. Greg Fluter, P.Eng, did the mechanical design and will be presenting to us. As well, Adeel Choudhry, with Reliable Heating and Cooling Ltd. will be providing a tech talk on the Building Management System at Arcola School. This school has been designed to meet LEED Silver Certification standards and the National Energy Model, has a green roof with a weather station, a vegetable and herb garden for students and a layout that maximizes natural light.

Next month, we have our Christmas party on December 12<sup>th</sup> at Beer Brothers and the Globe Theatre. Thanks Wayne Tkach for planning that as I know many of us are looking forward to it. January 9<sup>th</sup> is our next chapter meeting and we will be having a presentation on AHRI 1230 : Performance Rating of Variable Refrigerant

Flow (VRF) Multi-Split Air-Conditioning and Heat Pump Equipment. Please mark your calendars. And if you have any comments on this years programming, please [email me](#).

As well, I am to pass on some great research information. ASHRAE spent approximately \$450,000 on research projects in Canada last

year. We only raised \$222,612 in Canada, so ASHRAE is spending two dollars in Canada for every dollar we put in! There are many projects available for research opportunities on the ASHRAE website. Please encourage the University or another research institute to look at them and consider bidding on them.

So, please join us on Wednesday, November 14<sup>th</sup> at the **4 Seasons**, for this years building tour. Please remember RSVPs are needed for numbers by Thursday, Nov 8<sup>th</sup>. Please do so by acknowledging the calendar invite that was sent out.

### Student Activities

*by Jared Larson*

There are several exciting opportunities which have come up in the last month and in the future months. It has been great since each time we are at an event or interacting with the public it raises a little more awareness of who ASHRAE is in the community. The following is a list of some important events. I really need help from members to step up and help me in these roles. They are not a lot of time commitment, but will help achieve many of our chapters goals with students:

1. Nov. 17<sup>th</sup> (Saturday) - **RECC** - U of R students need 3 industry judges. Carla and I told them ASHRAE will provide this. We need members for this ASAP. This is the pre-qualifier for the national WECC competition in January.
2. Nov 20<sup>th</sup> ( Tuesday night) I have set up a **laser tag** / beer / pizza night. We will pair up students with industry members to help make connections, and feel more welcome within our group. This also helps companies looking for future

## Committee Chair Reports Continued

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employees as well. From the standpoint of our chapter, I want everyone to think of this as more than a social event. We absolutely **need ten members** from ASHRAE to make this successful. It is our chance to really help build relations.

3. **4<sup>th</sup> year projects** – I have submitted several 4<sup>th</sup> year design projects to the Students, of which 3 were chosen (radiant floor analysis, Heat recovery defrost control, and air intake / Hoar frost evaluation). I have been in contact with all these groups and they will need to study field installations. Let me know if you have any of these systems with DDC controls to set up data logging, and they may use it for the analysis.
4. **WESTEM** – This is a Student hosted event similar to our CRC. There will be a large need for them to raise money to make this event successful. I believe that our chapter has great opportunities here to sponsor an event, or meals. I have invited the Regina Engineering Student Society to the next meeting to speak more about this.
5. **Engineers Building Engineers** – I have started up a program for a K-12 target. For 6 weeks ASHRAE will be providing an after school program focused on increasing interest in engineering and we will be sponsoring a meal. I have paired up with an inner city school. I Also had a booth set up at the volunteer fair on Oct. 24<sup>th</sup>. I received much

interest from student who were interested in helping. We will also need firms to sponsor pizza & supplies (approx. \$200 each event).

MacPherson Engineering will be sponsoring the first event. I will give recognition to any sponsors by newsletters to parents and via social media. I am using this a pilot project with the intent that we can make it bigger and expand into other venues. This is a great way to give back into our community and raise awareness. As an example, I made a facebook page for this as well, and the first 5 people who followed the page were not even in the engineering field. Last month I visited a class at Arcola school. I included a photo from this visit. You can see more on the page.

<http://www.facebook.com/pages/Engineers-Building-Engineers/420814831319338>

6. **Stefan Lidington (RVC)** will be attending the next meeting, so be sure to buy him a drink. ( he is coming down from Saskatoon, so we have to show him that our chapter is more hospitable).
7. **Facebook Page** – Please continue to support the facebook page. It really helps those attending to connect faces / names, and vice versa. I also continue to post information. Last month it received over 120 hits.  
<http://www.facebook.com/AshraeReginaSaskatchewanStudentChapter>



## Committee Chair Reports Continued

### Past President & Research Promotion

*by Jason Danyliw*

The 2012/13 ASHRAE Research Promotion (RP) campaign is in full swing, and I look forward to building upon the great success that we had as a Chapter last year. As such, I would like to thank all donors (both company and personal) from last year for helping our Chapter raise \$13,785.00 for ASHRAE Research.

Thank you to Heric Holmes for all his great work to get our Chapter to another extremely successful level, as our Chapter was again one of the top ASHRAE Chapters for dollars raised per member. Due to our successes over the last 3-4 years, our Chapter target goal is now \$12,500.00. With some hard work and the continued generosity of our Chapter members, I am certain that we can easily obtain that goal. As such, I will be in contact with most of you over the next few months, and I know we can count on all of your support to make this another successful research campaign year.

Our ASHRAE Board of Governor's Committee has reached Full Circle again this year, meaning that each Board Member has graciously donated a minimum of \$100.00 to ASHRAE Research. So thank you to the Board Members for that support and leadership. We also have a few donations already being made, so I will work to continue that trend in the next few months.

Below is a list of all the corporate and personal ASHRAE RP Donors from last year. A huge THANK YOU to all!

Gold (\$1,000 +)	Silver (\$500-\$1,000)	Bronze (\$250-\$500)	Donor (\$100-\$250)	Personal Donors (\$100 +)
MacPherson Engineering Inc.	Cypress Sales & Partnership	All-Rite Plumbing & Heating Ltd.	Black & McDonald	Mrs. Alana Yip
Saskatchewan	HDA Engineering	Christie Mechanical	Conbrio Consulting	Mr. Bob England
Insulation Applicators	HVAC Sales Ltd.	City of Regina	Services Inc.	Mrs. Carla Spriggs
SaskEnergy	Selkirk Canada	ECCO Supply - Regina	DMA Applied Controls Ltd.	Mr. Garry Tollefson
	Uponor	E.H. Price Sales Ltd. - Regina	Engineered Air - Regina	Mr. Greg Fluter
		Inland Metal Manufacturing	Harvard Developments Inc.	Mr. Heric Holmes
		J-Clan Services Ltd.	Harvard Property	Mrs. Janel Walter
		R.J. England Consulting Ltd.	Management Inc.	Mr. Jason Danyliw
		Trane Saskatchewan	KD Mechanical	Mr. Jason Paul
			Norkorp Services Ltd.	Mr. Jerry Boulanger
			Mr. Rob Craddock	Mr. Kris Pockett
			Walter's Industrial	Mr. Murdoch MacPherson
			Mechanical Ltd.	Mr. Ray Sieber
				Mr. Trevor Harle
				Mr. Trevor Hobman

## What's New in ASHRAE

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### ***Ground Breaking Information for Data Center Energy Efficiency Guidance***

ATLANTA – Four new data center classes that can enable fulltime economizers for a number of applications in many climates are contained in the latest edition of the principal book in the ASHRAE Datacom Series of publications.

The cost of “Thermal Guidelines for Data Processing Environments, Third Edition,” is \$54 (\$46, ASHRAE members). To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore).

### ***ASHRAE Brings Technology, People Power in Support of Engineering for Change***

ATLANTA – ASHRAE has joined forces with an international engineering program to encourage its members to use their knowledge and technology to meet humanitarian challenges across the globe.

The initiative is part of Watson’s presidential theme Broadening ASHRAE’s Horizons, which emphasizes the role of ASHRAE members as leaders in the application of sustainable design and practices in our communities worldwide.

Under E4C ([www.ashrae.org/e4c](http://www.ashrae.org/e4c)), ASHRAE members can get involved with existing projects or start new ones.

### ***IAQ 2013 Examines Environmental Health in Low Energy Buildings***

ATLANTA—ASHRAE announces a call for abstracts for IAQ 2013, Environmental Health in Low-Energy Buildings. The conference will examine IAQ, thermal comfort, source control, air cleaning, ventilation, exposure and related environmental health concerns associated with low energy building design, construction, retrofit and operation.

For more information e-mail [IAQ2013@ashrae.org](mailto:IAQ2013@ashrae.org) or visit [www.ASHRAE.org/IAQ2013](http://www.ASHRAE.org/IAQ2013).

### ***DOE Appoints ASHRAE Building Energy Codes Fellow***

ATLANTA - ASHRAE launched its Washington Fellow program in 2007 to allow participants to work in the federal government in a technical advisory role for limited terms. The Society is accepting applications for additional DOE ASHRAE Fellows. For more information on the program, contact Doug Read, ASHRAE director of Government Affairs, at [dread@ashrae.org](mailto:dread@ashrae.org).

### ***International Cold Climate HVAC Conference***

Ashrae is hosting and organizing the conference with support from REHVA, a co-sponsor, and SCANVAC, the conference originator. For more information visit [www.ashrae.org/coldclimate](http://www.ashrae.org/coldclimate) November 12-14, 2012 Calgary, Alberta

### ***Additional Compliance Path Proposed for ASHRAE/IES Energy Standard***

Addendum bm to ANSI/ASHRAE/IES (Illuminating Engineering Society) Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings, is currently open for public review from Oct. 12 until Nov. 26, 2012. For more information, visit [www.ashrae.org/publicreviews](http://www.ashrae.org/publicreviews).

### ***Mandatory Commissioning for All Buildings Proposed for Green Building Standard***

Proposed addendum p would remove the “Acceptance Testing” provision (Section 10.3.1.1 Building Acceptance Testing) for small buildings. The proposed addendum is open for public review from Oct. 19-Nov. 18, 2012. To comment on the proposed changes or for more information, visit [www.ashrae.org/publicreviews](http://www.ashrae.org/publicreviews).

# What's New in ASHRAE

## HVAC Design Training

Jan 14-18, 2013 • Jan 30-Feb 1, 2013 (Level I only) • Mar 18-22, 2013 • Jun 3-7, 2013 • Aug 12-16, 2013

### HVAC Design: Level I - Essentials

Gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

**Registration is \$1239, \$989 (ASHRAE Member)**

Enroll 3 or more participants from the same company and save!



### HVAC Design: Level II - Applications

Developed by industry-leading professionals, the workshop provides participants with advanced level information about designing, installing and maintaining HVAC systems that can be put to immediate use. Participants will gain an in-depth look into Standards 55, 62.1, 90.1, and 189.1 and the Advanced Energy Design Guides, as well as a range of other HVAC topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant; and BAS controls.

**Registration is \$829, \$679 (ASHRAE Member)**

Enroll 3 or more participants from the same company and save!

Visit [www.ashrae.org/hvacdesign](http://www.ashrae.org/hvacdesign) to register

## ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference and AHR Expo in Dallas, TX

### 2 WAYS TO REGISTER

Internet: [www.ashrae.org/dallascourses](http://www.ashrae.org/dallascourses)

Phone: Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

### Full Day Professional Development Seminar

\$485/\$395 ASHRAE Member -- Earn 6 PDH/6 CEU or 6 AIA LU credits

**The Commissioning Process in New & Existing Buildings**  
Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

**Data Center Energy Efficiency**  
Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

**Healthcare Facilities: Best Practice Design & Applications**  
Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

**Complying with Standard 90.1-2010**  
Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

**Energy Modeling Best Practices and Applications:  
HVAC/Thermal**  
Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.




### Half Day Short Courses

\$159/\$119 ASHRAE Member -- Earn 3 PDH/3 CEU or 3 AIA LU credits

**Air-to-Air Energy Recovery Fundamentals**  
Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.


**Humidity Control: Applications, Control Levels  
and Mold Avoidance**  
Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

**Air-to-Air Energy Recovery Applications: Best Practices**   
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

**Application of Standard 62.1-2010:  
Multiple Spaces Equations & Spreadsheet**  
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.


**Combined Heat & Power: Design through Operations**   
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

**Understanding Standard 189.1-2011 for  
High-Performance Green Buildings**  
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

**Introduction to Ultraviolet Germicidal  
Irradiation (UVGI) Systems**   
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

**Commissioning Process & Guideline 0**  
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

**Evaluating the Performance of LEED®-Certified Buildings**  
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.


**Optimization of HVAC Systems & Components:  
Techniques & Real-World Examples**   
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

**Energy Management in New and Existing Buildings**  
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

**Avoiding IAQ Problems**  
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

**Designing Toward Net Zero Energy Commercial Buildings**  
Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

**Understanding & Designing Dedicated Outdoor Air Systems**  
Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

**Laboratory Design: The Basics and Beyond**   
Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.



## 12-2013 ASHRAE Regina Board of Governors

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Carla Spriggs  
HDA Engineering Ltd.  
[cspriggs@hdaeng.com](mailto:cspriggs@hdaeng.com)

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<http://regina.ashraechapters.org/>

## Regional & Society Executive

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### *Regional XI Executive*

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*MacPherson Engineering Inc.*

Research Promotion RVC  
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