

The

Pile of Bones

Published by the Regina Chapter of the American Society of Heating, Refrigerating and Air Conditioning Engineers

APRIL 2010

President's Message

by Greg Fluter

Thanks to everyone who came out to March's meeting for Julien deBullet's interesting presentation on Variable Refrigerant Flow Systems. I'd also like to thank HVAC Sales Ltd. for assisting in making the arrangements to bring Julien to Regina.

This month's meeting is our annual Student Presentation Night, where we'll have 3 individuals or groups from the University of Regina Engineering Program present their 4th year design projects. It's always interesting to listen to these well thought out presentations, so I encourage you to come out and attend to support the students.

We will also be having a presentation from one of our own members who is submitting a previous design for a Regional Award.

Chapters Regional Conference (CRC) is taking place in Regina this May 5th to 8th. A Technical Session has been put together for the morning of Thursday May 6th and will take

place in a lecture theater at the U of R. There will also be a Trade Show as part of the Welcome Reception which also takes place on Thursday from 4 to 8 p.m.. Please consider attending the full conference to take in the Tech Sessions, Trade Show and to learn more about ASHRAE and how your Chapter and Region operate. The full conference agenda and registration form can be found at our chapter website at <http://regina.ashraechapters.org/html/crc.html>.

Finally, summer's comin' so Trevor is busy organizing the annual ASHRAE Regina Research Golf Tournament which will take place late May or early June. More details to come from Trevor.

See you on Wednesday!

Meeting Notice! Wednesday April 14, 2010

**Hotel Saskatchewan
Radisson Plaza
2125 Victoria Avenue
Regina, Sk.**

5:00 -Social/Cocktails

**5:30 – U of R Student Night,
followed by CTTC Awards
and Member Design Project
Presentation for a Regional
Award**

6:45 - Dinner

7:30 - Chapter Meeting

PLEASE NOTE:

**2010 CRC – May 5-8th HERE
IN REGINA!**

We will require volunteers during the event - anyone who has not already signed up to volunteer is encouraged to contact Jerry Boulanger at 352-0656.

The CRC Conference Agenda is attached at the end of this newsletter, so please review the agenda and plan to attend.

Technical Program for April

Our March meeting will be Student night.

Please refer to Dean's column for project information.

2009/2010 Meetings and Events Schedule

September 9, 2009: Darron Rempel - Chilled Beams and Displacement Ventilation

October 14, 2009: Darren Alexander (TWA Panel Systems) – Radiant Sails & Stanley Mumma, Distinguished Lecturer (DL) - DOAS Systems & Radiant Panels

November 18, 2009: CSC & HDA Engineering Ltd. - Saskatchewan Disease Control Laboratory Tour

December 10, 2009: Christmas Social – Dinner and Entertainment at the Lazy Owl on the U of R Campus

January 12, 2010: Presidential Visit, President Gord Holness

February 10, 2010: George Reed

March 8, 2010: Variable Refrigerant Flow Systems - Julian R. de Bullet (McQuay International) DL

April 14, 2010: Student Night

May 12, 2010: Shawn Wedewer - SRC presentation - Commercial Cogeneration
Jerry Boulanger - J-Clan Services - Delta T and How to Get it

June, 2010: ASHRAE Research golf tournament
(Location and Details to be Confirmed)

Board of Governors for the Regina Chapter

President: Greg Fluter

Past President: Ted Cooke

President Elect & Chapter Technology

Transfer Chair: Heric Holmes

Vice President & Newsletter: Jason Danyliw

Membership: Rob Craddock

Research Promotion: Ted Cooke

Treasurer: Kris Pockett

Secretary: Carla Spriggs

Student Activities: Dean Nagel

Historian: Jerry Boulanger

Ways & Means: Trevor Hobman

2010 Chapters Regional Conference

CRC General Chair & Historian

by Jerry Boulanger

Only one chapter meeting before we host the CRC from May 5th to 8th! The full agenda can be viewed on our Chapter website, and attached at the end of this newsletter.

Local Chapter members are encouraged to register for the Technical Program that will take place on Thursday, May 6th. The topic is "Reducing Energy Use in Existing Buildings", and it will be an informative day.

The welcome reception and trade show on Thursday evening is open to all from the local industry, so plan to attend and see what's new and to meet our guests from across the ASHRAE Region.

We will require volunteers to help out during the event. I will be at the April meeting with a sign-up sheet, so please consider putting your name down for a shift or two.

Our Chapter has a history of putting on a great event for the CRC, and we're confident that we'll do it again this year.

Jerry Boulanger

CRC General Chair & Historian

Committee Chair Reports

President Elect & Chapter Technology Transfer Chair

by Heric Holmes

This month's meeting will be student night and CTTC awards. This is always a good night to see innovative ideas from the students at the University of Regina. Plus, we are still looking for CTTC chapter awards from our members.

Last month's meeting was with McQuay International's Julian de Bullet. I really enjoyed his presentation on Variable Flow Refrigerant Systems. I would also like to thank Brent Smith for helping to arrange his visit.

Next month, we will be having two presentations. The first will be a commercial cogeneration system hosted by Shawn Wedewer and Rob Craddock, and the second presentation will be about "Delta T in Chilled water systems", and will be presented by Jerry Boulanger.

ASHRAE Regina is presenting the ASHRAE Commissioning Webinar on April 21, 2010 at 11 a.m.. Sasktel will be hosting the Webinar with MacPherson Engineering and J-Clan services providing lunch.

Please let Greg or myself know if you are going to attend by April 19th so that we can confirm numbers with Sasktel.

Heric Holmes

President Elect and Chapter Technology Transfer Chair

Membership Promotion Chair

by Rob Craddock

Membership Application:

http://www.ashrae.org/docLib/20080710_MemberAssocAffilApp.pdf

Application to upgrade membership:

We are at the time of the ASHRAE year that nominations for the Regional executive and Society positions take place. If you are interested in becoming a member of the Regional executive please contact any of the members of the current chapter Board. Nominations will taken to CRC next month and put forward in the Caucus for voting.

If you are interested in putting your name forward for a Regional position here is a list of the Regional positions and there term length:

- Director and Regional Chair (DRC) 3 years as chair and 2 years as Assistant Chair
- Regional Vice Chair (RVC) 3 years
- Research Promotion
- Student Activities
- Membership Promotion
- Chapter Technology Transfer
- Nominating Delegate and Alternate Term length is a Max of 7 years
- Regional Historian
- Regional Treasurer

If you are interested in any of the Regional positions you will need to have a copy of you updated Bio. given to any of the chapter Board of Governors members prior to CRC in May.

There are a few more area's that you can be nominated for is Society positions. I have attached a copy of the information from to the Society web site.

Council and Committee Structure

ASHRAE's committee structure is the mechanism that makes the Society run. Through this structure, members formulate policy, develop procedures, and direct Society activities. Decisions made by the Board of Directors are based on the recommendations of committees. Because of this, the Board of Directors is only as effective and efficient as the Society committees. New ideas and new programs are usually initiated in committees,

which also serve as management training centers for future Society leaders.

Committee participation: Committee participation is one of the most important and rewarding aspects of ASHRAE membership. Committee leadership is necessary to achieve the overall objectives of the Society and coordinate activities in the most effective manner.

Leadership is provided by the committee chair - someone who sets goals, recognizes problems, and assigns the right people to develop creative solutions. Achieving results requires a concentrated team effort. Ideally, the chair is attuned to the committee's tasks as well as the interpersonal dynamics of the committee members.

Councils: Councils are comprised of board members, representatives of related standing committees, and other members elected by the Board of Directors. Their mission is to administer the activities and policies promulgated by the Board that concern those committees within the organizational structure of the councils. In addition, councils approve or reject the funding of projects and programs recommended by the appropriate committees.

The three councils are:

Members
Publishing and Education
Technology

Benefits of Serving

Members who serve on committees do so without payment for their services, and usually pay their own expenses. The Society does, in some instances, pay transportation expenses for designated committees when so requested by eligible members.

Service on committees, however, carries its own rewards. Members who serve receive many benefits: Increased mastery of their fields, increased competence as professionals and increased recognition as authorities in their fields of interest. They also receive the satisfaction that comes from forming new friendships and making a contribution to an organization dedicated to advancing the arts

and sciences in their fields of interest for the benefit of the general public.

The Society has been fortunate in finding talented, enthusiastic individuals to serve on its many committees. Nevertheless the president, and others responsible for committee appointments, always welcome and need chapter and member recommendations to find candidates who are not only qualified, but also willing and able to participate.

Those interested in serving on a committee are encouraged to make their wishes and qualifications known. Chapter and regional officers, and others who are in a position to know and evaluate prospective committee members, are urged to submit recommendations for consideration.

Here is a list of the Society Committees that you can become a member of.

Select the individual committee for more information.

- [Advocacy Committee](#)
- [Admissions and Advancement Committee](#)
- [Certification Committee](#)
- [Chapter Technology Transfer Committee](#)
- [Chapters Regional Committee](#)
- [Conferences and Expositions Committee](#)
- [Electronic Communications Committee](#)
- [Environmental Health Committee \(EHC\)](#)
- [Executive Committee](#)
- [Finance Committee](#)
- [Handbook Committee](#)
- [Historical Committee](#)
- [Honors and Awards Committee](#)
- [Membership Promotion Committee](#)

- [Nominating Committee](#)
- [Planning Committee](#)
- [President-Elect Advisory Committee](#)
- [Professional Development Committee](#)
- [Publications Committee](#)
- [Refrigeration Committee](#)
- [Research Administration Committee](#)
- [Research Promotion Committee](#)
- [Society Program Committee](#)
- [Society Rules Committee](#)
- [Standards Advisory Committee](#)
- [Standards Committee](#)
- [Student Activities Committee](#)
- [Technical Activities Committee](#)
- [Young Engineers in ASHRAE \(YEA\) Committee](#)

The last area within Society you can become active is the Technical side as a member of a SSPC, TC, TG, or TRG

If you are interested in this please login to the web site and apply for the specific Technical committee you are interested in.

Please log into the ASHRAE web site and make sure your Bio is up to date and accurate. If you want to join any of the many society TC's (Technical Committee's) or become involved at the Regional level or Society level you will need to keep this up to date.

The other thing that will take place at CRC will be nominations for Honors and Awards. If there is anyone from the chapter that qualifies for Honors and Awards the chapter will be putting their name forward at this time. If you are interested in putting a project forward for one of the Regional Technology awards and then for the Society Awards

you need to contact Heric about what paperwork needs to be filled out as he will be the Chapter Delegate at CRC in May.

Rob Craddock
Membership Promotion Chair

Past President & Research Promotion Chair
by Ted Cooke

This year, like all years, the ASHRAE Regina Chapter is in search of ASHRAE Research donations from any members and industry associates. We have managed to set donation amount records for our chapter over the last few years, and I think we can yet again break the previous donation record set with the gracious members that we have!

If you would like to make a research donation, please contact me at tcooke@hdaeng.com, and any and all research donations (of any amount) are appreciated!

Ted Cooke
Past President & Research Promotion Chair

Student Activities Chair
by Dean Nagel

This month is our ASHRAE Student Presentation night. It is a great opportunity to view U of R 4th year engineering student project presentations on interesting HVAC-related topics from various University of Regina students. Please feel free to invite those who have never been to an ASHRAE meeting, colleagues and associates to come out and enjoy a very informative night. Thank you to Marie Iwaniw from the U of R for her assistance in setting up these student presentations for our chapter meeting.

I will require a few people as presentation evaluators, so please let me know if you are interested or can evaluate the projects so we, as a

chapter, can award the successful presenters with some hard earned scholarships. You can email me at dean.nagel@stantec.com. We hope to see you at the meeting.

The 4th year engineering students are also presenting their final projects at 8:30 a.m on Saturday April 10th, 2010, and continuing throughout the day. The presentations are open to anyone wishing to listen and view them at the University of Regina on the 6th floor of the Education Building.

Dean Nagel
Student Activities

Ways & Means Chair
by Trevor Hobman

Our 2010 ASHRAE golf tournament is fast approaching. The tournament is tentatively scheduled for early June, with an exact date to be determined shortly. More details will follow in the next few weeks and in next month's newsletter, and we look forward to seeing all members out on the course!

Trevor Hobman
Ways & Means Chair

Vice President & Newsletter Chair
by Jason Danyliw

Regina Chapter Email Address:
<mailto:ashraeregina@accesscomm.ca>

Regina Chapter Website Address:
<http://regina.ashraechapters.org/>

ASHRAE HVAC&R Industry eNewsletter
If you wish to subscribe to the ASHRAE HVAC&R Industry eNewsletter, e-mail subscribe@ashrae.org with "Subscribe this address to The HVAC Industry eNewsletter" in the e-mail subject line.

ASHRAE Learning Institute

The ASHRAE Learning Institute is offering on-line courses. There are 2 ways to register:

1. Internet : <http://www.ashrae.org/onlinecourses>

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

NOTE: You may register up to 24 hours prior to an online seminar. Course times are in Eastern US Time Zone.

Dates Confirmed for Next Satellite Broadcast/Webcast

The April 21, 2010, ASHRAE Webcast, "**Right From the Start – Commissioning for High Performing Buildings,**" will provide the building community with tools to overcome commissioning hurdles and make the process "business as usual." This **free** webcast will be transmitted **live** via the internet from 11:00 – 2:00 p.m. CST. Webcast participants may earn three (3) Professional Development Hours (PDHs) or (3) AIA Learning Unit and chapters can earn 100 PAOE Points for hosting the program. The webcast presenters are:

- o **Rick Casault, P.E., CCP, CDT,** President, Casault Engineering, Seattle, WA
- o **H. Jay Enck, CxAP, HBDP, LEEDTMAP, CPMP,** Founder/Principal/Senior Commissioning Agent, Commissioning & Green Building Solutions, Inc., Buford, GA
- o **Michael L. Weiss, Ph.D. ABD, HCCP,** Managing Principal and President, WorkingBuildings, LLC, Atlanta, GA
- o **Ronald Wilkinson, P.E., LEEDTMAP,** Senior Commissioning Project Manager, AKF Group, LLC, New York, NY

Online registration via the ASHRAE website will begin March 2, 2010. There is no fee for registration.

Watch for additional information regarding registration and the program and via email, www.ashrae.org, and *ASHRAE Insights*. Please share this information with your colleagues to assist them with scheduling. If you have questions, please contact rdouglas@ashrae.org or call (678) 539-1128.

Members Sought for Committee

First Changes Proposed to New Green Standard: Daylighting Addressed

ATLANTA—Members are being sought and changes proposed for the new standard for the design of high-performance green buildings published in January.

ANSI/ASHRAE/USGBC/IES Standard 189.1, *Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings*, is the first code-intended commercial green building standard in the United States. The standard provides a long-needed green building foundation for those who strive to design, build and operate green buildings. It covers key topic areas of site sustainability, water use efficiency, energy efficiency, indoor environmental quality and the building's impact on the atmosphere, materials and resources.

Under ASHRAE's continuous maintenance procedure, which allows requests for change to any part of the standard to be made at any time, changes have already been proposed.

"Given the high amount of interest in this standard, using continuous maintenance allows us to incorporate current technical information on a timely basis," Kent Peterson, chair of the committee said. "These changes are then put out for public review and comment, which results in an industry consensus standard."

Open for public comment are addenda *a* and *b*. Addendum *a* makes the daylighting definitions and criteria consistent with changes recently proposed to Standard 90.1, which sets requirements for energy efficient buildings. Addendum *b* reduces the space limitation for daylighting requirements. Rather than requiring daylighting in space larger

than 1,000 square feet, the proposal would require it in spaces larger than 250 square feet.

Members also are being sought for the committee developing the standard with slots opening July 1. The deadline to apply is March 31. For more information on membership, contact standardssection@ashrae.org

For more information on the proposed addenda, visit www.ashrae.org/publicreviews. For complete information on the standard, visit www.ashrae.org/greenstandard.

First of its kind collaboration designed to boost critical green building practices across the country **ICC, ASHRAE, USGBC and IES Announce Nation's First Set of Model Codes and Standards for Green Building in the U.S.**

ATLANTA – What do organizations representing building safety professionals, energy and lighting engineers, green building practitioners, architects and technical standards developers have in common? They have all come together to green the nation's built environment by establishing a comprehensive model green building code designed to rapidly advance green building practice across the U.S.

The International Code Council (ICC), the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), the U.S. Green Building Council (USGBC), and the Illuminating Engineering Society of North America (IES) today announce the launch of the International Green Construction Code (IGCC), representing the merger of two national efforts to develop adoptable and enforceable green building codes. The IGCC provides the building industry with language that both broadens and strengthens building codes in a way that will accelerate the construction of high performance green buildings across the U.S. For decades, ICC and ASHRAE have worked to develop codes and standards that become the industry standard of care for the design, construction, operations and maintenance of residential and commercial buildings in the U.S. and internationally. In coordination with the efforts of ICC and ASHRAE, USGBC has been leading a nationwide green building movement centered on

the LEED Green Building Rating System since LEED was launched in 2000. The convergence of these efforts in the IGCC is perhaps the most significant development in the buildings industry in the past 10 years.

Leveraging ICC's unrivaled delivery infrastructure to reach all 50 states and more than 22,000 local jurisdictions and ASHRAE, USGBC and IES's technical strengths, this partnership will accelerate the proliferation of green building codes and standards developed jointly by ICC, ASHRAE and USGBC and IES, across the country and around the globe. The newly launched International Green Construction Code (IGCC) establishes a previously unimaginable regulatory framework for the construction of high performance commercial buildings that are safe, sustainable and by the book. A landmark addition to the technical content of the IGCC is the inclusion of

ANSI/ASHRAE/USGBC/IES Standard 189.1, *Standard for the Design of High Performance, Green Buildings Except Low-Rise Residential Buildings*, as an alternate path of compliance. Standard 189.1 is a set of technically rigorous requirements, which like the IGCC, covers criteria including water use efficiency, indoor environmental quality, energy efficiency, materials and resource use, and the building's impact on its site and its community. Standard 189.1 was written by experts representing all areas of the building industry, who contributed tens of thousands of man hours. Developed in a little over three years, the standard underwent four public reviews in which some 2,500 comments were received.

"The emergence of green building codes and standards is an important next step for the green building movement, establishing a much-needed set of baseline regulations for green buildings that is adoptable, usable and enforceable by jurisdictions," said ICC Chief Executive Officer Richard P. Weiland. "The IGCC provides a vehicle for jurisdictions to regulate green for the design and performance of new and renovated buildings in a manner that is integrated with existing codes as an overlay, allowing all new buildings to reap the rewards of improved design and construction practices."

"Bringing together the code expertise of ICC with technical expertise of ASHRAE to create a comprehensive green building code will accelerate our transformation to more sustainable building practices," Gordon Holness, ASHRAE president, said. "ASHRAE is committed to providing the design guidance building designers and engineers need to reduce the energy consumption of buildings."

"The U.S. Green Building Council's mission is market transformation and we've long recognized the need to reach beyond the market leaders served by LEED to accomplish this goal," said Rick Fedrizzi, President, CEO and Founding Chairman of the U.S. Green Building Council. "Broadening the scope of the codes and establishing a higher floor allows us to continue to raise the ceiling, a critical factor in how the building industry is working to mitigate climate change. We are thrilled to see this set of complementary green building codes and standards; our organizations working collaboratively will advance green building nationwide in a way that was never before possible."

"IES is pleased to support the collaborative efforts of the organizations which demonstrate expertise in code and technical standards development in this comprehensive green building code," said Rita Harrold, IES Director of Technology. "IES looks forward to ongoing guidance for sustainable building practices."

On Monday, March 15, ASHRAE, IES and USGBC will join ICC at its Washington, DC headquarters as they and their co-authors (the American Institute of Architects and the American Society for Testing Materials) launch the IGCC. On Monday, Standard 189 .1 and the IGCC will be available for wide distribution, providing much-needed content, code language, and vision for more safe and sustainable future. The organizations are also working together to advance related education and advocacy efforts to promote adoption, enforcement and compliance with the IGCC codes that will pave the way for green buildings and neighborhoods, while creating jobs and strengthening the economy.

For more information on IGCC:

<http://www.intlcode.org/cs/IGCC/Pages/default.asp>

[x](#) and on Standard 189.1:
www.ashrae.org/greenstandard.

Editors Note: Interviews with ASHRAE leaders regarding this collaboration are available. Please contact Jodi Scott at jscott@ashrae.org.

About ICC

The International Code Council (ICC) is a membership association dedicated to building safety and fire prevention. ICC develops the codes and standards used to construct residential and commercial buildings, including homes and schools. The International Codes, or I-Codes, published by ICC, provide minimum safeguards for people at home, at school and in the workplace. The I-Codes are a complete set of comprehensive, coordinated building safety and fire prevention codes. Building codes benefit public safety and support the industry's need for one set of codes without regional limitations.

Fifty states and the District of Columbia have adopted the I-Codes at the state or jurisdictional level. Federal agencies including the Architect of the Capitol, General Services Administration, National Park Service, Department of State, U.S. Forest Service and the Veterans Administration also enforce the I-Codes. The Department of Defense references the International Building Code for constructing military facilities, including those that house U.S. troops, domestically and abroad. Puerto Rico and the U.S. Virgin Islands enforce one or more of the I-Codes. www.intlcode.org.

About USGBC

The Washington, D.C.-based U.S. Green Building Council is committed to a prosperous and sustainable future for our nation through cost-efficient and energy-saving green buildings. With a community comprising 80 local affiliates, more than 18,500 member companies and organizations, and more than 140,000 LEED Professional Credential holders, USGBC is the driving force of an industry that is projected to contribute \$554 billion to the U.S. gross domestic product from 2009-2013. USGBC leads an unlikely diverse constituency of builders and environmentalists, corporations and nonprofit

organizations, elected officials and concerned citizens, and teachers and students.

Buildings in the United States are responsible for 39% of CO₂ emissions, 40% of energy consumption, 13% water consumption and 15% of GDP per year, making green building a source of significant economic and environmental opportunity. Greater building efficiency can meet 85% of future U.S. demand for energy, and a national commitment to green building has the potential to generate 2.5 million American jobs. www.usgbc.org

About ASHRAE

ASHRAE, founded in 1894, is an international organization of 51,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education. www.ashrae.org

About IES

The Illuminating Engineering Society of North America (IES) is the recognized technical authority on illumination. For over 100 years; its objective has been to communicate information on all aspects of good lighting practice to its members, to the lighting community, and to consumers, through a variety of programs, publications, and services.

IES is a forum for the exchange of ideas and information, and a vehicle for its members' professional development and recognition. Through technical committees, with hundreds of qualified individuals from the lighting and user communities, IES correlates research, investigations, and discussions to guide lighting professionals and lay persons via consensus-based lighting recommendations. www.ies.org.

Existing Building Upgrades: Energy-Conserving Practices and Policies Focus of NYC ASHRAE Conference

ATLANTA – From the city's most recognizable building to its first green commercial office tower, lessons learned underneath the sustainability skyline

of New York City will be shared at an ASHRAE speciality conference in April.

Among the speakers at ASHRAE's *Existing Buildings in Urban Areas: Dramatically Cutting the Energy Waste*, are Tony Malkin, president, Malkin Properties, a real estate firm that owns and manages over 14 million square feet of office, retail residential and other properties in 15 states, including the Empire State Building, and Jody Durst, co-president, The Durst Organization, the owner, manager and builder of 9 million square feet of mid-town Manhattan office and residential properties, including 4 Times Square. These owners will help highlight NYC's ground-breaking "Greener, Greater Buildings" laws, the first in the nation to address energy usage in existing buildings.

The ASHRAE conference serves to guide the building community and government in reducing energy in existing buildings. The conference takes place April 19-20, 2010, at the Grand Hyatt in New York, N.Y. To register or for more information, visit www.ashrae.org/cutenergywaste. The conference is endorsed by BOMA International and the U.S. Green Building Council and sponsored by the New York State Energy Research and Development Authority.

Malkin and Durst are taking part in an April 19 panel focused on real estate executives. They will share lessons learned in making their properties sustainable and discuss why sustainability is a driving force in the real estate industry.

"The founders of these two organizations helped construct the city's skyline," Michael Bobker, conference chair said. "And today's generation is working to make that skyline more sustainable. The Empire State Building is undergoing a \$500 million renovation with a focus on greatly reduced energy consumption and carbon emissions. And the Durst property portfolio sets new standards for use of new technologies. They truly can speak to our conference goal of cutting energy waste."

Also taking place at the conference is a session on Energy Performance Rating and Disclosure, which will include an update on ASHRAE's Building Energy Quotient program. The program, launched in a pilot phase in

December, serves to inform building owners and operators, tenants and prospective buyers on the energy use of buildings, to encourage the building industry to find ways to cut energy use and costs. Some 25 buildings, represented by leading building owners and designers, real estate developers and government agencies, are involved in the pilot program.

On April 20, a breakfast talk on *Strategizing an Urban Campaign* is featured. Those taking part include representatives of ICLEI - Local Governments for Sustainability, an international association of local governments as well as national and regional local government organizations that have made a commitment to sustainable development, and Rohit T. Aggarwala, director, the Office of Long-Term Planning and Sustainability, City of New York. Aggarwala will provide an update on Plan NYC, New York City's ambitious long-term sustainability plan.

Also taking place on April 20 is a session *Real Estate Decision-Making – Bridging the Gap between Engineers and Decision-Makers*. Featured speakers from TIAA-CREF, Sentinel Real Estate Corp. and Prudential Real Estate Investors will evaluate investment in energy efficiency in existing buildings. Real estate decision makers will explain opportunity cost of capital and other barriers to investing, as well as what drives them to invest and what they need to see from engineering companies and energy service companies.

The conference addresses investment and financial decision-making, effective public policies, and necessary technical steps (energy audits, commissioning, retro-commissioning, benchmarking of utility consumption, and design and construction of energy related problems).

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

Papers Focused on Net-Zero-Energy Sought for ASHRAE 2011 Winter Conference

ATLANTA – Papers addressing the industry’s efforts to achieve zero-energy design are being sought for ASHRAE’s 2011 Winter Conference in Las Vegas, Nev.

The deadline for paper submissions is April 16. For complete information on the submittal requirements, visit www.ashrae.org/lasvegas.

The 2011 Winter Conference takes place Jan. 29-Feb. 2, along with the ASHRAE co-sponsored AHR Expo, held Jan. 31-Feb. 2. The technical program focuses on efficient use of energy, different design approaches and other topics related to refrigeration, standards and codes, and HVAC systems, equipment, applications and fundamentals.

Topics covered include codes and standards in the HVAC&R industry, integrated design, low-energy design, refrigeration update, industrial HVAC&R, net-zero energy, HVAC systems and equipment and HVAC fundamentals and applications. Full-length technical papers or conference paper abstracts (400 words or less) should be submitted by April 16.

For more information about the two types of papers and to submit a full-length technical paper or conference paper abstract, go to the ASHRAE Las Vegas Conference Web site: www.ashrae.org/lasvegas.

The conference is expected to attract some 2500 attendees from 60 countries. The technical program takes place Sunday, Jan. 30–Wednesday, Feb. 2, and includes paper presentations as well as non-paper presentations. Approved papers are published in ASHRAE Transactions.

ASHRAE Rises to the Occasion in Albuquerque

ATLANTA—From the soaring Sandia Mountains to peacefully floating hot air balloons, at almost 5,000 feet above sea level, Albuquerque, N.M. is a city of great heights. Since ASHRAE is always striving to reach the highest levels of energy efficiency and sustainability, Albuquerque serves as the perfect site for the 2010 ASHRAE Annual Conference.

“*Raising Efficiency to New Levels* serves as the Conference theme and echoes ASHRAE’s mission,” Gordon Holness, ASHRAE president,

said. “As leaders in the industry, ASHRAE should continually strive to set high standards for energy efficiency and sustainability. Not only that, but ASHRAE also must lead by example by achieving and exceeding those standards to the highest level.”

With a focus on energy efficiency system design for high elevations and dry climates, this year’s technical program features more market-based papers and programs than in previous technology-driven ASHRAE conferences. In addition, the conference includes traditional full-length Technical Papers as well as a new Conference Paper format. Technical program tracks include: What Is Sustainable Anyway?; Energy Facts vs. Simulation; Ventilation Systems; Refrigeration for the Future; Energy Conservation vs. New Generation; Living with HVAC&R Systems; and High Efficiency HVAC Systems.

The technical program begins Sunday, June 27, and ends Wednesday, June 30, with all sessions at the Albuquerque Convention Center. Complete program details will soon be available at www.ashrae.org/newmexico.

The Albuquerque Virtual Conference also creates exciting new opportunities for attendees—present and remote—to interact with the speakers and other attendees through the posting of questions and comments, viewing comments and viewing the presenters’ responses. The Virtual Conference consists of some 250+ presentations of seminars and conference and technical paper sessions.

The ASHRAE Learning Institute offers eight courses, including new full-day seminars on integrated building design and implementing Standard 189.1-2009 and a new half-day seminar introducing the IAQ design guide as a tool for avoiding IAQ problems.

The Conference keynote speaker is Karan Grover of Karan Grover and Associates in India. Grover will share his thoughts on the need to look at a society’s culture and heritage for clues to the direction of contemporary architecture and sustainable development. The Plenary *session* takes place Saturday, June 26 at the Hyatt Regency Albuquerque.

ASHRAE technical tours offer an inside view of how technology developed by members is practically applied in building environments. Tours

at the Annual Conference include the Albuquerque Aquarium and the heating and cooling plants of the University of New Mexico

Additionally, ASHRAE President-Elect Lynn G. Bellenger, P.E., Fellow ASHRAE, a partner at Pathfinder Engineers & Architects, Rochester, N.Y., takes office as 2010-11 president. Bellenger presents her inaugural address at the president's luncheon on Monday, June 28, focused on modeling a more sustainable world through energy simulation, daylight analysis, CFD and BIM software.

The ASHRAE Annual Conference takes place June 26-30. To register or for more information, visit www.ashrae.org/newmexico. The Hyatt Regency Albuquerque will serve as the headquarters hotel.

ASHRAE Annual Conference to Focus on High Efficiency, Energy Conservation and Facts vs. Simulation

ATLANTA—Guidance on how to improve building systems—from moisture issues to ventilation—including high efficiency HVAC&R systems and ventilation systems, is an important focus of the technical program at ASHRAE's 2010 Annual Conference, June 26-30 in Albuquerque, N.M.

“The program is strong in presentations that are market-based, addressing existing technology, systems and equipment, giving attendees more practical, hands-on knowledge that they can use daily in their professions,” Kirk Mescher, conference program chair, said. “The conference presents more paper-related sessions, a result of integrating a shorter, conference paper into the program.”

The technical program starts Sunday, June 27, at the Albuquerque Convention Center. The program features 10 technical paper sessions (with 29 papers presented), 16 conference paper sessions (40 papers presented), 61 seminars, 10 forums and one technical plenary session for a total of 98 sessions and 69 meeting papers. For a complete listing of the technical program, visit

www.ashrae.org/newmexico.

The program is divided into seven tracks. The tracks with the most number of programs are: High

Efficiency HVAC&R Systems, Energy Facts vs. Simulation, Living with HVAC&R Systems, Energy Conservation vs. New Generation and Ventilation Systems.

Sessions of interest in these tracks include: Standard 90.1-2010, A First Look, a two-part seminar that presents information on the development and content of the upcoming 2010 version of 90.1; Energy Efficient Operation and Design of Data Centers, addressing efficiency improvement options in data centers and the resultant operating cost associated with these improvements; Energy Efficiency Retrofit Measures for Government Buildings, focused on energy efficient retrofits of existing buildings; HVAC System Noise Control for Classrooms, summarizing guidelines/requirements related to noise control in schools; and Building Energy Simulation 101, covering the basics of simulation programs and selecting the appropriate type.

Conference registrants will also be able to experience the technical program through the Virtual Conference, providing the most complete access to the state-of-the-art concepts and latest design techniques. Participants of the Virtual Conference can view and listen to programs on their own schedule, post comments and view presenters' responses. Access to the Virtual Conference is included with paid conference registration or can be purchased separately.

Advance conference registration is \$515 (ASHRAE member) and \$680 (non-member) by May 31. Virtual Conference registration is \$299 (ASHRAE member) and \$464 (non-member). To register or for more information, go to www.ashrae.org/newmexico.

ASHRAE Research: Laboratory Test of Five Non-Chemical Devices Used in Cooling Towers Showed No Effectiveness in Preventing Biological Growth

ATLANTA –New research supported by ASHRAE indicates that non-chemical devices (NCD) marketed to control the growth of biological agents,

such as Legionella in cooling towers, may not materially reduce biological growth.

Research project No. 1361, *Biological Control in Cooling Towers Using Non-Chemical Water Treatment Devices*, a two-year project recently completed by Dr. Radisav Vidic at the University of Pittsburgh, evaluated five non-chemical devices using different technologies to control biological activity in a model cooling-tower system. The devices studied included a hydrodynamic cavitation device, pulsed and static electric field devices, an ultra-sonic device and a magnetic device.

In Dr. Vidic's research, none of the non-chemical devices measurably reduced planktonic or sessile microbial populations in comparison to no-treatment tests and to a conventional chemical microbial control treatment protocol. The findings appear to be inconsistent with previous research by non-chemical device manufacturers and some independent researchers on some of the same devices tested in the ASHRAE study. Those other studies reported measurable degrees of biological control within the parameters of testing conducted.

"These results suggest that equipment operators, building owners and engineers should consider taking more frequent water sample tests for their systems that rely on NCDs for biological control. If the testing shows an issue, one possible measure is to add chemical treatment capability to their system to prevent a potential health hazard from developing until additional research and field testing can resolve this question," according to Dr. Vidic .

The study results are still subject to final approval by the sponsoring technical committee, TC 3.6 – Water Treatment. ASHRAE anticipates formal approval and the release of the final report for this project at its 2010 Annual Meeting Conference in June. For notice of when the report is available, please contact Mike Vaughn, Manager of Research and Technical Services, at mvaughn@ashrae.org.

ASHRAE Government Affairs Update

Senator Jeff Merkley (D-OR) introduces "Building Star" Proposal Legislation

On March 4, 2010, Senator Jeff Merkley (D-OR) introduced S. 3079, the "Building Star Energy Efficiency Act of 2010." According to Senator Merkley, "Clean energy is not only the next great growth industry, but it's an engine for job creation today." He went on to say "Energy-efficiency programs like 'Building Star' will put Americans to work in construction and manufacturing and save small businesses money as we strive for American energy independence." The bill was referred to the Senate Committee on Energy and Natural Resources. ASHRAE is listed in the section on definitions at the very start of the bill and building envelope insulation is defined according to ASHRAE Standard 90.1-2007 or 2009 IECC as appropriate. The reference to climate zone in the bill is also defined according to ASHRAE Standard 90.1-2007 as is Qualified Building Envelope Insulation and that latter is also referenced to 2009 IECC. A Qualified Energy Audit references an ASHRAE Level II energy audit. Roof insulation also references ASHRAE Standard 90.1-2007 or 2009 IECC. ASHRAE's standard 90.1-2007 and the 2009 IECC are referenced for Qualified Mechanical Insulation. 90.1-2007 is also cited with regard to Qualified Replacement Chiller. Finally, an ASHRAE Commissioning Process Management Professional certification with regard to a Qualified Retro Commissioning Study is cited as well.

The Energy Future Coalition said this bill would give a jolt to manufacturing and get the building trades working again by installing energy saving equipment in buildings, storefronts and multi-family homes across the nation. The EFC calls the "Building STAR" legislation "a job-creation proposal supported by member organizations of *Rebuilding America*, a ground-breaking coalition of unions, contractor associations, manufacturers, financial services companies and energy efficiency advocates. Rebates included in the bill would amount to \$6 billion, in order to stimulate \$18 to \$24 billion in total investment, resulting in more than 150,000 new jobs. These jobs will pay well, allow companies to rehire laid off workers and infuse sorely needed capital into small businesses and hard-hit communities across the country. The savings accrued by building owners and the profits

earned by laborers and manufacturers will power even more economic growth.”

<http://www.energyfuturecoalition.org/files/webfmupload/EFC%20Building%20STAR%20Press%20Release%203.4.10.pdf>

<http://www.energyfuturecoalition.org/files/webfmupload/Senate%20Building%20STAR%20Press%20Release%203.4.10.pdf>

Senator Jeff Bingaman (D-NM) introduces “Home Star” Proposal Legislation

On March 25, 2010, Senator Jeff Bingaman (D-NM) introduced S. 3177 the Home Star Energy Retrofit Act of 2010. According to remarks in the *Congressional Record*, Senator Bingaman said “If enacted, HOME STAR will build on existing policies and initiatives that have already proved effective. The program is supported by a broad coalition of over 600 groups including construction contractors, building products and mechanical manufacturers, retail sales businesses, environmental groups and labor advocates. HOME STAR will provide point-of-sale instant savings to encourage homeowners to install residential energy upgrades such as air sealing, insulation, and high efficiency furnaces and water heaters. HOME STAR will have a two-tiered approach that will offer flexibility to homeowners when choosing retrofits to install. Under the Silver Star program, rebates averaging \$1,000 will be offered for the installation of each eligible energy-saving measure such as new insulation and high-efficiency heating and cooling systems, up to maximum of \$3,000 per home. Under the Gold Star program, there will be performance-based grants of \$3,000 for a 20 percent reduction in home energy consumption and \$1,000 for each additional 5 percent of verified energy reduction as determined by a comparison of the energy consumption of the home before and after the retrofit. HOME STAR will also create American jobs in the construction industry, which has lost 1.6 million jobs since December 2007, with unemployment rates topping 25 percent in some regions. HOME STAR leverages private investment to create a strong market for home energy retrofits,

and will put hundreds of thousands of unemployed Americans back to work as well as stimulating demand for building materials produced by American factories. Finally, HOME STAR will reduce home energy consumption and dependence on foreign oil. HOME STAR helps Americans pay for cost-effective home improvements, create permanent reductions in household energy bills, and reduce our national carbon footprint. Residential energy efficiency improvements covered by the HOME STAR program reduce energy waste in most homes by 20 to 40 percent. When combined with low-interest financing, these retrofits can be cash-flow positive upon project completion. An initiative with a potential to retrofit over 3 million homes, HOME STAR will achieve significant reductions in building-related greenhouse gas emissions while generating long-term energy savings for American consumers and reducing energy usage by an amount equal to four 300-megawatt power plants.”

ASHRAE Leadership Visits

On April 26-27, ASHRAE’s Leadership will visit Washington, D.C. to meet with officials from government agencies and private energy associations to discuss issues such as building technologies and energy issues. ASHRAE leadership will meet with the ICC, SMACNA, NIST, NIBS and DOE. Efforts are also being made to arrange a meeting with EPA as well.

Engineering Public Policy Symposium – April 20, 2010

The annual “Engineering Public Policy Symposium” will be held on April 20th from 8:30 am – 1:00 pm in the Members Room of the Library of Congress’ Thomas Jefferson Building. Administration officials, Members of Congress and their staffs will be present to discuss their legislative priorities for the 111th Congress’ second session as

regards energy, the environment and R&D. There is no charge for the event but seating is limited so register early at <http://tiny.cc/E1F6I>

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Regional XI Executive

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Region XI C.R.C. – May 5th to 8th, 2010
Regina, Saskatchewan
Hotel Saskatchewan Radisson Plaza

The Regina Chapter invites you to attend the Region XI Chapters Regional Conference in the Queen City in May, 2010. We have a great program planned and know that you will enjoy your time in Regina.

For more information on things to see and do while you're here go to www.tourismregina.com.

Make room reservations directly with the hotel – 1-800-395-7046 or www.hotelsask.com. We have an ASHRAE block of rooms with a single queen standard room rate of \$129.00 per night.

Please direct any questions to me at 1-866-933-8533 or jclan@sasktel.net.

Again, we're looking forward to being your hosts. If you've been to visit us before you know you will have a good time. If this will be your first visit, you're in for a treat!

Regards,

Jerry Boulanger
CRC General Chair

Conference Agenda

Wednesday, May 5th

1:00 PM - Golf and Dinner – Royal Regina Golf Club

You can register for golf and dinner, or just dinner. Transportation provided. There are no other meal events planned for Wednesday.

3:00 – 9:00 PM - Registration Desk open

3:00 – 11:00 PM - Hospitality Room open

Thursday May 6th – Technical Program – Reducing Energy Use in Existing Buildings

The technical program presentation will be at the University of Regina. Transportation will be provided for out-of-town guests, and parking will be provided for attendees with their own transportation.

8:00 – 9:00 AM - Breakfast

9:00 – 10:30 AM – Building Energy Retrofits: Process Overview, Energy Conservation Measures, and Lessons Learned

The presentation will provide an overview of a typical building energy retrofit process, from benchmarking energy usage, to undertaking an energy audit, a discussion of typical energy conservation measures and case studies, and measurement and verification protocols.

Speaker – James Furlong, principal with Stantec Sustainable Solutions, Calgary, AB. James has nine years experience with a background in mechanical technology and building science. He is currently an energy and LEED consultant for several health care, sports and recreation, higher education and commercial office projects throughout North America. James also serves as a Director of the Alberta Chapter of the Canada Green Building Council, is a board member of the Alberta Energy Efficiency Alliance, and participates in the CaGBC's Technical Advisory Group for Sites, Water and Materials.

10:45 – 11:45 AM – Soft skills presentation, Jerry Boulanger

12:00 – 1:30 PM – Lunch and presentation by the University of Regina on energy reduction initiatives on their campus, followed by tours of related installations/projects.

1:45 – 2:45 PM – ASHRAE Headquarters Renovation: What Happens When Leaders Try To Do It Right

ASHRAE recently dedicated a complete renovation of its headquarters building in Atlanta. This presentation will focus on the design and construction process, the systems installed and preliminary performance results. It will also take a look at what worked as well as where some major surprises occurred.

Speaker – Ron Jarnagin, Staff Scientist, Pacific Northwest National Laboratory, Richland, WA.

Ron has been involved in energy-related research and development activities for over 35 years and has served on many utility, government and business advisory boards, lending his expertise to solving their respective energy problems.

4:00 – 8:00 PM – Welcome Reception and Trade Show - All technical session registrants are invited to attend the Welcome Reception and Trade Show at the Hotel Saskatchewan

Thursday, May 6th - Conference Program

7:00 – 9:00 AM, 2:00 – 9:00 PM - Registration desk open

2:00 – 4:00 PM, 8:00 – 11:00 PM - Hospitality Room open

3:15– 4:00 PM – Orientation session

4:00 – 5:00 PM – Caucus #1

4:00 – 8:00 PM – Welcome Reception and Trade Show

Friday, May 7th Conference Program

7:00 – 9:00 AM - Registration desk open

2:00 – 5:30 PM, 9:00 – 11:00 PM - Hospitality Room open

7:00 – 8:00 AM - Breakfast

8:00 – 9:00 AM – Caucus #2

8:00 – 9:00 AM – Regional Executive Session

9:00 – 12:00 AM – Business Session #1

12:00 – 2:00 PM – Presidential Luncheon

2:00 – 5:00 PM – Membership Workshop

2:00 – 5:00 PM – CTTC Workshop

2:00 – 5:00 PM – Chapter Operations Workshop

6:00 – 9:00 PM – Banquet

Friday, May 7th Partner Program

9:45 AM – 12:00 PM - RCMP Heritage Centre Tour

The RCMP Heritage Centre opened on May 23, 2007 to share the RCMP story with the world. Located on the grounds of the RCMP Academy, 'Depot' Division - the story of the RCMP is appropriately told where Cadets are trained and the story begins.

Housed in a breathtaking stone, glass and concrete building designed by world-renowned architect Arthur Erickson, the RCMP Heritage Centre tells the story of the RCMP using state of the art exhibits, multimedia technologies and engaging programming and tours.

12:00 – 2:00 PM – Presidential Luncheon

2:30 – 4:00 PM – High Tea, Hotel Saskatchewan Victorian Tea Room

The Victorian Tea Room maintains the Radisson Plaza Hotel Saskatchewan's tradition of elegance with afternoon tea.

6:00 – 9:00 PM – Banquet

Note – registration for the Partner Program also includes the Thursday evening Welcome Reception, Friday breakfast, Saturday breakfast, and Saturday lunch.

Saturday, May 8th Conference Agenda

7:00 – 8:00 AM - Breakfast

8:00 – 9:00 AM – Caucus #3

8:00 – 9:00 AM – Regional Executive Session

9:00 – 10:00 AM - ASHRAE Canada

9:00 – 11:00 AM – Chapter History Workshop

9:00 – 11:00 AM – Student Activities Workshop

10:00 – 11:00 AM – Research Promotion Workshop

11:00 AM – 1:00 PM – Awards Luncheon

1:00 – 5:30 PM - Hospitality Room open

1:00 – 4:00 PM – Business Session #2

6:00 – 10:00 PM – Windup Social – Casino Regina

The Casino is within walking distance of the hotel. We have a private room booked where we'll have dinner and then get some private gambling training from Casino dealers using funny money.