

# ASHRAE Ottawa Valley Chapter

## Chapter Meeting #1 – 16 Sept 2014

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Meeting Date:	16 Sept 2014
Location:	Nortec, 2740 Fenton Rd.
Attendance:	Total: 70
	Members: 55                  Guests:13                  Students: 2
Theme:	Membership
Tour:	Nortec Manufacturing Facility
Tech Session:	10 min Tech Session on Humidification
Table Top:	Nortec NH Electrode Steam and MH Evaporative Media Humidifiers Sponsored by Longhill
Program:	<b>The Dark Side of ASHRAE</b>
Speakers:	Max Sherman, Ph.D., Distinguished Lecturer
Prepared by:	Adam Graham

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### **Social** (17:30 – 18:10)

#### **Business Session** (18:10 –18:45)

- President Steve Moons introduced the Board of Governors and Executive.
- Adam Graham introduced the guests for the evening.
- Adam Moons welcomed new members and discussed theme of membership.
- Steve Moons reminded attendees about the upcoming stroke play golf tournament and encourage people to sign up.
- Longhill Table Top displays of Nortec NH and MH humidifiers were introduced by Matt Coulombe.
- Don Weekes discussed ASHRAE merger with IAQA (Indoor Air Quality Association). IAQA will be an independent brand under ASHRAE. Don Weekes suggested that there may be interest in starting an Ottawa Chapter.
- Bob Kilpatrick and Abbey Saunders ran through the process of updating ASHRAE member bios. Bob explained the importance of tracking Chapter, Region, and Society level involvement by assigning points towards recognition awards.  
[www.ashrae.org](http://www.ashrae.org) → Login → My Membership → Update Member Profile  
Past chapter involvement can be found on the ASHRAE OVC website as follows:  
[http://www.ashrae.ottawa.on.ca/ashrae-ovc\\_history/Chapter Officers History/OVC Chapter Officers History.pdf](http://www.ashrae.ottawa.on.ca/ashrae-ovc_history/Chapter%20Officers%20History/OVC%20Chapter%20Officers%20History.pdf)
- Senators tickets were donated by Cathy Godin of SK Sheet Metal and raffled off raising \$520 for ASHRAE Research with Adam Moons of Walmar winning the tickets.

### **Dinner** (18:45 – 19:40)

#### **Short Presentation** (19:40 – 19:50)

- A speaker from Nortec presented a brief “Introduction to Humidification” presentation.
- Explained terms related to humidity, followed by the reasons for proper humidity control.
- Described different types of humidifiers and discussed various approaches to humidification.

### **Evening Program** (19:50 – 20:55)

- Next the evening program presentation commenced with Distinguished Lecturer and Staff Senior Scientist at Lawrence Berkeley National Laboratory, Max Sherman introducing himself and his presentation outline for “The Dark Side of ASHRAE”.
- The term “Dark Side of ASHRAE” was coined by Ross Montgomery and was defined as the parts that most Chapter members don’t see.
- An in depth overview of the presentation can be seen below:
  
- What ASHRAE “IS”?
  - o Mission
    - To advance the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world.
  - o Vision
    - ASHRAE will be the global leader, the foremost source of technical and educational information, and the primary provider of opportunity for professional growth in the arts and sciences of heating, ventilating, air conditioning and refrigerating.
  - o Core Values
    - Excellence
      - ASHRAE education, technical information and all other activities and products will always reflect best practices through continuous improvement and innovation.
    - Commitment
      - ASHRAE and its members are passionate about serving the built environment, creating value and recognizing the accomplishments of others.
    - Integrity
      - ASHRAE is committed to the highest ethical standards. We work transparently, observing essential requirements for due process and peer reviews to ... do the right things, the right way.
    - Collaboration
      - ASHRAE seeks and embraces collaborative efforts with organizations, agencies and individuals sharing our commitment to sustainable built environments.
    - Volunteerism
      - Members lead ASHRAE at every level, serving ASHRAE and helping ASHRAE serve society.
  - o ASHRAE Code of Ethics
    - As Members of ASHRAE or participants in ASHRAE committees, we pledge to act with honesty, fairness, courtesy, competence, integrity and respect for others in our conduct:
      - A. Efforts of the Society, its members, and its bodies shall be directed at all times to enhancing the public health, safety and welfare.
      - B. Members and organized bodies of the Society shall be good stewards of the world’s resources including energy, natural, human and financial resources.
      - C. Our products and services shall be offered only in areas where our competence and expertise can satisfy the public need.
      - D. We shall act with care and competence in all activities, using and developing up-to-date knowledge and skills.
      - E. We shall avoid real or perceived conflicts of interest whenever possible, and disclose them to affected parties when they do exist.
      - F. The confidentiality of business affairs, proprietary information,

- intellectual property, procedures, and restricted Society discussions and materials shall be respected.
  - G. Each member is expected and encouraged to be committed to the code of ethics of his or her own professional or trade association in their nation and area of work.
  - H. Activities crossing national and cultural boundaries shall respect the ethical codes of the seat of the principal activity.
- What is the “Dark Side”?
  - Business side of ASHRAE: Communications
    - ASHRAE sells publications, advertizing, and training
  - Light side of ASHRAE: Members
    - Grassroots organization of Members
    - Runs on volunteer effort
  - Dark side of ASHRAE: Technology and Policy
    - HVAC&R Content:
      - Research
      - Standards
      - Handbook
    - HVAC&R Impacts:
      - Positions
      - Politics
      - People
  - Grey side of ASHRAE: Board of Directors
- Presented ASHRAE organizational chart
- Several controlling documents for the society:
  - Articles of consolidation
    - Actual legal basis for existence of Society
  - Society Bylaws (SBL)
    - Contract between Society and its Members
  - Rules of the Board (ROB)
    - Board of directors set policies, rules, directions, positions
    - Limits set by SBL
  - Manual of Procedures (MOP)
    - How ASHRAE bodies carryout ROB
- The Dark Side: Advancing the arts and sciences of HVAC&R for the benefit of the general public.
  - Education
    - ASHRAE Learning Institute (ALI)
      - Taught by engineers for engineers to provide real world experience.
      - Enables attendees to make immediate impacts in their work.
        - Professional Development Seminars
        - Short Courses
        - Spring and Fall Online Courses
        - Intensive Design Workshops
    - ASHRAE e-Learning
    - Certification
      - Six certifications demonstrate knowledge and experience in building industry.
        - Building Energy Assessment
        - Building Energy Modeling
        - Commissioning Process Management
        - Healthcare Facility Design

- High Performance Building Design
  - Operations and Performance Management
  - Developed in collaboration with other cognizant organizations
- Scholarships
  - Over 25 scholarships available to undergrad engineering, undergraduate technology, or high school seniors entering college.
- Publications
  - Cold Climate Design Guide:
    - Guide to focus on distinctive challenges involved in designing systems for cold climates, including specific design approaches and equipment available for engineers to use.
    - Estimated publication – January 2015
  - Handbook
    - Predecessor document: American Society of Heating and Ventilating Engineers' (ASH&VE) "Heating and Ventilating Guide" (1922)
    - Recognized repository of current engineering procedures and practices in HVAC&R.
    - Typical users: consulting engineers, equipment designers, plant engineers, contractors, government officials, technicians.
    - Includes four volumes published annually on 4 year cycle:
      - Fundamentals
      - Refrigeration
      - HVAC Applications
      - HVAC Systems and Equipment
    - Published in two editions: IP and SI units
  - ASHRAE Terminology
    - Comprehensive online glossary of over 3700 terms related to the built environment.
  - Free Resources
    - Advanced Energy Design Guides  
[www.ashrae.org/freeaedg](http://www.ashrae.org/freeaedg)
    - Indoor Air Quality Guide  
[www.ashrae.org/freeIAQGuidance](http://www.ashrae.org/freeIAQGuidance)
    - Refrigeration Commissioning Guide  
[www.ashrae.org/freeRefCxGuidance](http://www.ashrae.org/freeRefCxGuidance)
    - Procedures for Commercial Building Energy Audits  
[www.ashrae.org/pcbea](http://www.ashrae.org/pcbea)
- Technology ("darkest of them all")
  - Standards
    - Written since 1922, with approx 130 active or guideline projects.
    - Reviewed and republished to ensure they are up-to-date, e.g., existing code-intended standards are on a three year review cycle.
    - 1 of 6 standards-developing organizations accredited by ANSI as an Audited Designator.
    - Consensus process ensures standards are developed independent of special interests.
    - Volunteer committees bring together a balanced group of technical experts, professionals, government officials and business representatives.
    - Most well-recognized standards: 15, 34, 55, 62.1, 62.2, 90.1, 90.2, 189.1
  - Research
    - Core of ASHRAE's existence since 1919.

- Largest program of fundamental and applied research supported by a technical society.
    - Importance of ASHRAE Research
      - Improves work and application of building systems.
      - Allows development of technical information to create standards and guidelines.
    - Displayed Region II Active/Completed Research (summer/fall 2014)
      - Approx. \$670k (very high compared to other regions)
  - Technical Committees (TCs)
    - Nearly 4000 technical committee volunteers, 500 outside N.A.
    - 70% of technical program at annual conferences sponsored by TCs.
    - Over 200 Handbook chapters maintained by TCs.
    - All active research projects are monitored by TCs.
    - Technical Activities Committee coordinates membership, development, oversight.
  - Building Energy Quotient
    - Free submissions offered to qualified ASHRAE members until Nov. 30, 2014.
    - Expanded to allow submissions by professional engineers in addition to ASHRAE-Certified BEAP or BEMP.
- ASHRAE Update
  - ASHRAE and IAQA merger
  - ASHRAE Strategic Plan 2014
    - 5 initiatives:
      - Market Prioritization
      - ASHRAE Efficiency
      - Applied Product Development
      - ASHRAE's Role in the Global Community
      - ASHRAE's Role in the Residential Sector
    - Available online at [www.ashrae.org/strategicplan](http://www.ashrae.org/strategicplan)
    - New Residential Emphasis [www.ashrae.org/residential](http://www.ashrae.org/residential)
  - Council Initiatives
    - Members Council
      - Reviewing flexibility in commercialization policies to assist in chapter formation and support.
      - Reviewing ASHRAE marketing to ask on behalf of members the “what’s in it for me” question as a membership value proposition.
      - Developing more cost effective ways to deliver products to chapters
      - Reviewing structure of CRCs to ensure they continue to meet chapter and regional needs.
    - Publishing/Education Council
      - Develop programs for building/facility owners and operator to support and enhance the effective operation of building HVAC&R systems, through education, as well as evaluation and operational tools.
      - Determine the appropriate products and tools to be developed by ASHRAE to enhancement of the residential built environment.
      - Develop and package practical application programs for delivery through chapters and regions.
  - ASHRAExCHANGE.org online forum and social media website
  - New ALI course offering
    - Emphasis on eLearning and regional/chapter level training
  - New redlined versions of ASHRAE Standards in online bookstore.

- Identifies changes made in standards revision process in red.
    - Saves time and resources in implementation of new standards.
  - ASHRAE and Code Interaction
    - Actively engaged in development and maintenance of over 150 standards.
    - Value in standards realized when they are adopted and used.
    - ASHRAE Standards Committee focuses on adoption through Code Interaction Subcommittee (CIS).
      - CIS works with other model code and standards writing organizations to have standards adopted in their documents.
      - Many standards are adopted by reference.
      - When standard not written in mandatory or code intended language, it cannot be adopted by reference; then criteria in standard must be adapted for use in other document.
      - Standards committee encouraged to provide mandatory and code intended language.
      - Chapters and members can support effort by:
        - Serving as resource to code officials
        - Reinforcing value of standards and integrity of standards development process
        - Participate in standards and code development process of code groups to foster reliance on ASHRAE standards.
  - Scholarships
    - Chapters may endow \$60,000 for scholarship issued annually by Society based on chapter criteria once approved by ASHRAE Scholarship Trustees, Foundation Trustees and Board of Directors.
    - Minimum scholarship endowment for businesses and individuals (not chapters) is now \$100,000.
    - Chapters may endow a minimum \$30,000 for scholarships administered by chapters (checks are issued by Society directly to scholarship recipients chosen by chapters).
    - \$100,000+ in scholarship money awarded for the 2013-2014 year.
  - All members encouraged to attend upcoming ASHRAE events/meetings.
- We are Volunteers
  - ASHRAE is completely volunteer driven
    - Roughly \$3M a year in volunteer labour.
    - Support staff works for volunteers.
  - ROI for volunteering
    - Society reflects Member priorities
    - Volunteers get leadership training
      - How to work in groups, run meetings, reach consensus, etc.
- A house divided..... (Light and Dark Side) “Cannot Stand”
  - Both sides must work together for the success of Members, Chapters, and Society.
- ASHRAE (The Society)
  - Founded in 1894, > 53000 volunteer members in over 130 countries
  - 5497 Canadian Members, >5000 Student Members
  - 14 Regions, 175 Chapters (16 Canadian Chapters), 312 Student Branches
  - Society meant to be a pipeline of information to membership
- Mr. Sherman opened the floor to questions from the audience.
- After a brief question and answer period President Steve Moons thanks Mr. Sherman and the meeting was adjourned at 20:55.