

# It's Our Biggest Event of The Year!



Wednesday March 21, 2012  
Ramada Conference Centre

The ASHRAE Northern Alberta Chapter is pleased to bring you a  
spectacular one-day event!

**1/2 Day Technical Seminar!**  
**Luncheon With Speaker!**

**Afternoon Trade Show!**  
**Evening Dinner Meeting with the MCA!**  
(The Mechanical Contractors Association)  
**Win a \$1,000 travel voucher!\***

Topics Include:

- Net Zero Buildings - Design, Maintenance, Technology
- Integrated Design
- Commissioning: Lessons Learned
- Various Technical Sessions by Industry Experts

\* Each participant at the day's events will receive one ticket for the Voucher draw. Participants will have the opportunity to purchase more tickets for the draw. Draw will be held at the end of the dinner meeting. Winner **MUST BE PRESENT** to claim prize.



**ASHRAE**

American Society of Heating, Refrigeration and Air Conditioning Engineers

## **The ASHRAE Northern Alberta Chapter Presents:**

### **Morning Technical Seminar**

**Dunstan Macauley, PE**

## **NET ZERO BUILDINGS - DESIGN, MAINTENANCE, TECHNOLOGY**

**Wednesday March 21, 2012**

Net-zero energy buildings are those which, on an annual basis, use no more energy from the utility grid than is provided by on-site renewable energy sources.

**These buildings use 50% to 70% less energy than comparable traditional buildings.**

**The remaining energy use comes from renewable sources, like solar panels or wind turbines incorporated into the facility itself.**

The course provides application knowledge of the design and operating principles for energy efficient buildings and available technologies and systems to achieve net-zero energy building design. Building design strategies, review of current policy and regulation, energy, environmental and economic assessment of building's performance, energy efficiency in HVAC, lighting and appliances, and on-site renewable energy sources are reviewed.

Please join us for this Technical Training Program led by Dunstan Macauley, PE. Mr. Macauley currently serves as the Mechanical Division Manager for TAI in Maryland and is certified by ASHRAE as a High-Performance Building Design Professional and is involved in various Technical Committees to compliment his Engineering degree from the University of Maryland.

**Training includes breakfast, refreshments at break , lunch at Mechanical Extravaganza Lunch Presentation, and a Technical Resource.**

**For more information on the 2012 Mechanical Extravaganza please visit [www.ashraenac.org/rsvp](http://www.ashraenac.org/rsvp)**

**Breakfast and Registration: 7:30 to 8:15 a.m.**

**Seminar: 8:30 a.m. to 11:45**

**Members: \$245.00 Non-Members: \$295.00 Students: \$95.00**

**Luncheon is included with your seminar price**



# ASHRAE NAC Luncheon

## Dennis Knight, P.E., LEED AP

### Whole Building Systems LLC

## Integrated Design

**Mr. Knight is the past Chair of ASHRAE TC 7.1 and Co-Author of Chapter 57 in the Applications Handbook "Integrated Building Design". He has participated in several integrated building design teams and many not so integrated teams during his 37 year career in the building design, construction, operation and maintenance industry. He will share his insight into what it takes to form and manage an integrated building design team and some tools that may be used to help teams deliver high performance buildings today and in the near future.**

#### About Dennis:

Mr. Knight has 37 years' experience providing engineering, design and construction related services within the building industry. He is active at the local, state and national levels with various agencies and professional societies to help develop sustainable, integrated building design guidelines. A few of those agencies and organizations he participates in regularly include the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), the US Green Building Council SC Chapter, the SC Office of School Facility Design Guide Committee and the Construction Specifications Institute (CSI). Nationally, as a member of ASHRAE, Dennis is the Vice Chairman for Research Promotion, serves as the Chairman of the Handbook Subcommittee tasked with developing handbook chapters for "Integrated Building Design" and is a member of the BIM Steering Committee. Prior to founding Whole Building Systems, LLC in January 2011 Mr. Knight was a Principal and Director of Practice Management for Liollo Architecture for the previous six years. Prior to managing the architectural practice he was an Owner and Managing Member of both a local engineering company and a construction company for 21 years. He strives to facilitate the integration of each element and discipline required in a project, with consideration for the life-cycle costs and benefits related to those elements, so that all the pieces and parts of a building work together in concert with each other and their surroundings.

As a Principal and Founder of Whole Building Systems, LLC Mr. Knight utilizes his extensive experience in the design and construction industries to assist Building Owners, Architectural and Engineering Design Professionals, Project Managers, and other Clients and Consultants. Mr. Knight conducts Energy Audits, performs Energy Modeling, provides Building Conditions Assessments, Green House Gas Emissions Inventories, prepares Sustainability Plans, facilitates and conducts Owner's Project Requirements Workshops, prepares Commissioning Plans and provides on-site commissioning and third party verification services. In addition he develops quality assurance requirements, checklists and guidelines to help facilitate interdisciplinary coordination during the Design and Construction Phases of a Project and assists the preparation of Construction Documents (Procurement Documents, Drawings and Specifications) and Contracts. He performs Code Analysis and Product Research and prepares LEED Documentation.

Want to join us for lunch?

Noon to 1:30p.m.

\$25.00

(Included with morning seminar fee)



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# ASHRAE Northern Alberta Chapter Trade Show 2012



**WEDNESDAY MARCH 21, 2012  
RAMADA CONFERENCE CENTRE KINGSWAY**

## **Don't Miss Out!**

Join us for our **largest Tradeshow ever!!**

This year's tradeshow is part of the Alberta Mechanical Extravaganza. Combined with the Tradeshow are various events brought to you by the ASHRAE NAC.

As part of the 2012 Mechanical Extravaganza there will be an onsite Technical Training Seminar led by an ALI (ASHRAE Learning Institute) instructor, a lunch-time presentation by ASHRAE Distinguished Lecturer Dennis Knight, afternoon mini technical sessions from leading industry experts, and all of this is topped off by our Annual MCA / ASHRAE joint meeting and panel discussion that will include a presentation from ASHRAE DL Dennis Knight. The Tradeshow itself will wrap up with our annual Wine and Cheese on the Tradeshow floor!



**Win a \$1,000 travel voucher!\***

Trade Show Committee:	William Regan:	wregan@prestonhipps.com	phone: (780)-437-5199
	Paul Knowler:	p.knowler@qualitec.ca	phone: (780)-466-6611
	Tom Jacknisky:	tjacknisky@hemisphere-eng.com	phone: (780)-452-1800 ext. 404
	Geoff Hurly:	geoff.hurly@shaw.ca	phone: (780)-758-2544
	Corey Dandurand:	cdandurand@victaulic.com	phone: (780)-995-4474
	Jennifer MacKenzie:	admin@ashraenac.org	phone: (780)-235-1451

\* Each participant at the day's events will receive one ticket for the Voucher draw. Participants will have the opportunity to purchase more tickets for the draw. Draw will be held at the end of the dinner meeting. Winner **MUST BE PRESENT** to claim prize.



**ASHRAE**

American Society of Heating, Refrigeration and Air Conditioning Engineers

**Wednesday March 21, 2012**

**The ASHRAE Northern Alberta Chapter  
along with**

**The Mechanical Contractors Association:**

**Present:**

**Commissioning: Lessons Learned**

**A Panel Discussion**

**Moderated by Dennis Knight, P.E., LEED AP  
Whole Building Systems, LLC**

Mr. Knight will begin by making a brief presentation of his top 10 to 12 issues that recur on most projects based on his experience designing, constructing and commissioning high performance buildings. Then he will moderate a panel discussion among the attendees regarding ways to avoid these issues and improve the delivery of the HVAC and energy using systems on a project.

Please assist us in planning for proper attendance by Reserving your spot today!  
(RSVP information on next page)

Dinner—6:00 PM

Panel Discussion— 7:00 PM

Travel Voucher Draw\* - End of Meeting

Members—\$40.00 Non-Members—\$45.00 Students—\$15.00

This meeting is NOT included with the Morning Seminar Registration



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# Registration

Please visit:

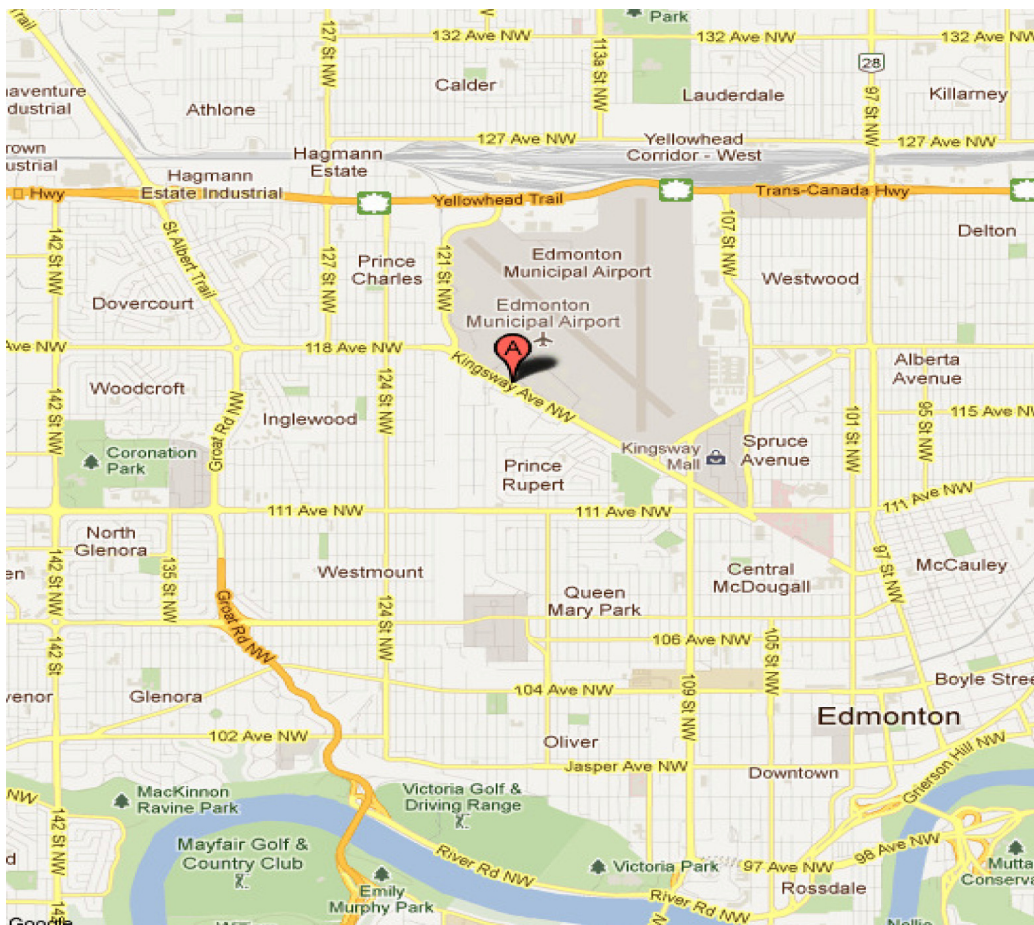
(Click Below)

<http://rsvp.ashraenac.org>

To RSVP and Pay!

Questions? Email: [admin@ashraenac.org](mailto:admin@ashraenac.org)

Ramada Kingsway - 11834 Kingsway Avenue, Edmonton



A block of rooms are available for booking at the Ramada.

Please call: 1-800-854-9517 or 780-454-5454

Please mention the ASHRAE event when calling.

Rooms will only be held at the special rate until March 1, 2012