

**From:** [blackhillsashrae@googlegroups.com](mailto:blackhillsashrae@googlegroups.com) on behalf of ([Black Hills ASHRAE](#))  
**To:** [BlackHillsASHRAE](#)  
**Subject:** Black Hills Chapter of ASHRAE Re: March Meeting  
**Date:** Tuesday, March 26, 2019 1:51:06 PM

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Just a reminder to everyone to RSVP to Emily ([emily.wheaton@balanceprosinc.com](mailto:emily.wheaton@balanceprosinc.com)) for Thursday's presentation by Noon tomorrow (Wednesday March 27th).

On Friday, March 15, 2019 at 4:25:16 PM UTC-6, (Black Hills ASHRAE) wrote:

## **ASHRAE Program:**

**Hybrid Heat Pumps - March 28, 2019, 11:45 A.M. to 1:00 P.M.**

**Location: O'Connor Co., 1221 Concourse Dr, Rapid City, SD**

**Lunch:** Lunch will be provided. RSVP to Emily ([emily.wheaton@balanceprosinc.com](mailto:emily.wheaton@balanceprosinc.com)) at the O'Connor Company.

**Presenter:** Raoul Gautreau , P.Eng. graduated from the University of New Brunswick in 1984 with a degree in Engineering.

In 1989 Raoul joined Trane and attended their 6 months HVAC training program in LaCrosse Wisconsin. Upon graduating he was assigned to the Toronto District office and spent 16 years in the Southern Ontario construction market. He held several positions during his years at Trane including Design Build and Global Accounts Department where he was involved with projects in the US, Europe, Asia and South America. He left Trane in 2004 to pursue challenges within the HVAC energy efficiency field. He is now the Director of Business Development for the CGC Group.

**Course Objective:**

The objective of this course is to study the operation of the Hybrid Water Source Heat Pump System and its advantages over traditional Water Source Heat Pump systems.

- Less Electrical consumption (40 % to 50 % less)
- Lower heating costs (40 % to 70 % lower)
- Lower sound levels
- More contribution towards LEED points
- Lower maintenance costs
- Lower installation costs
- More reliable
- Smaller Emergency Generators
- Smaller footprint
- Better heat sharing capability
- Possible reduction in the size of the geothermal field

Economic and Energy analysis will be provided.

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