

**MY COMMITTEE, MY OFFICE**  
**TECHNICAL TRANSFER COMMITTEE**

The CTTC committee – Chapter Technology Transfer Committee is an important committee of the ASHRAE chapter. The committee has the responsibility of preparing the seminars, lectures, also contacting distinguish lecturers (or any other lecturer), and to prepare the schedule or the agenda of the technical seminars. It is very important in terms of technology transfer and dissemination of any development in the field of HVAC.

Other duties are as follows:

- Provide input and maintain liaisons with local, provincial and state governments on technical issues.
- Keep the Chapter informed on governmental activities related to HVAC.
- It can assist in development of regulations, and a codes when approved by the BOG.
- Provide assistance to the Chapter publicity committee and to the chapter historian too.
- Make arrangements for speakers arrival and assist them with hotel accommodation and travel arrangements.
- Keep a record of meeting attendance for future planning.
- Coordinate with other chapters.
- Coordinate the efforts of the chapter regarding "joint activity" with other technical groups at the chapter and when necessary at regional level.

**Mohamad El Mokdad**, is founding member of the ASHRAE Qatar Oryx Chapter. He is the current CTTC Chair. and works with Maico Gulf as Export Manager for DYNAIR fans. Mohamad hold M.Sc. Degree in Mechanical Engineering.

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The newsletter committee expresses its deep gratitude to KEO International for sponsoring printing 75 hard copies of each issue for distribution during Chapter events.

**DONATE YOUR OLD ASHRAE HANDBOOKS**

MESSAGE FROM THE STUDENT ACTIVITY COMMITTEE

Thanks to our local ASHRAE members that responded to our recent call to "Donate Your ASHRAE Handbook".

To date, we received a total of seven ASHRAE handbooks. These handbooks will be donated (on your behalf) to engineering students to benefit of them.

We encourage other members who have ASHRAE 2006 handbooks or earlier copies to donate them to the chapter to assist in encouraging the young generation in building up their knowledge.

Recently one of the donated copies was given to one Qatar University student.

**ASHRAE QATAR CHAPTER ELECTIONS**

MESSAGE FROM THE PRESIDENT ELECT

On Saturday, May 8th your ASHRAE Chapter will have its annual Board of Governor's election. This is a very important event, where all local members are expected to participate in the process of selecting the Board members to represent them and work for them during the coming year.

I, herein, invite all local members to participate in the election and help ASHRAE Qatar Oryx Chapter to continue its effort in serving the local professional community in Qatar and the region. Please watch your mail boxes for details of the election day agenda and have your say in who and how you want to be served by the Chapter.

**RAMIZ GABRIAL**  
**ASHRAE Qatar Chapter—President Elect**

American society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

**ASHRAE — QATAR ORYX CHAPTER**

May 2010



**ASHRAE—QATAR ORYX CHAPTER & QATAR GREEN BUILDING COUNCIL MEET WITH QATAR UNIVERSITY STUDENTS**

On Thursday, April 22<sup>nd</sup>, ASHRAE – Qatar Oryx Chapter & the Qatar Green Building Council introduced QGBC and ASHRAE student activities to Qatar University – Mechanical engineering male students.

It is our intention to carry out similar presentations in other engineering institutions in Qatar to raise awareness and attract students to the importance of participating in such initiative at young age to their personal advantage and to serve their community.

During the 75 minutes presentation, Hassan Al-Ibrahim of QGBC and Ramiz Gabriel the ASHRAE Chapter's President Elect & Chairman of Student Activity committee demonstrated QGBC's mission and objectives and the advantages of joining ASHRAE as student member and the support and benefits that student members receive from the local Chapter and the Society.



During the presentation, one donated ASHRAE handbook (worth of US\$195) was given to a student who answered small quiz question. Another student won ASHRAE – Qatar Oryx chapter polo shirt.

<b>Chapter Officer:</b>		<b>Subrata Kar V. P.</b>	<b>Committees:</b>		<b>Newsletter Committee:</b>	
David Brown	President	Hassan Sultan	Mohamad Mokdad—CTTC	Ramiz Gabriel	Chair	
Ramiz Gabriel	Pres.Elect	<b>Board of Governors:</b>	Andullah Abu Shaikha—	Denise Haladjian	Member	
Seenu Pillai	Secretary	Abby Varghese	Membership	Seenu Pillai	Member	
Denise Haladjian	Treasurer	Eugene Baustlista	Ramiz Gabriel—Student Activity			
Kamal Taj	V. P.	Venue Dukkipati	Denise Haladjian—Res. Promotion			
Hani Hawamdeh	V. P.	Sajid Poolakkal				



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**WISDOM OF THE MONTH**  
**GOOD TIMES BECOME GOOD MEMORIES**  
**BAD TIMES BECOME GOOD LESSONS**

**GREEN TECHNOLOGIES & CONTRACTING CO. W.L.L. SPONSORS THE LATEST ASHRAE TRAINING DAY**



#### Green Technology & Contracting Company Sponsor's the latest ASHRAE Training day

On Saturday, April 10<sup>th</sup> Green Technology & Contracting Company sponsored a full training day at the College of the North Atlantic. The event was different to our previous training days, as the eight hours day was split among four subjects of high interest. The subjects were;

**Cooling Towers in a water-cooled HVAC System** – Presented by **Mr. Georges Hoeterickx** of **Evapco, Europe**. Included interesting demonstration of the different types of cooling towers, their use and application in the Gulf environment.

**Case Study "comparison between air-cooled and water-cooled HVAC systems"** presented by **Mr. Subrata Kar** of **Green Technology – Qatar**. A detailed comparison between water-cooled and air-cooled chilled water systems based on a study that was carried out in the UAE. The study looked at system initial cost, life expectancy, and life cycle cost analysis. A conclusion that water-cooled systems are more cost effective for larger capacity chilled water system.

**Centrifugal separation in the Condenser Water & Chilled Water Circuit** – Presented by **Mr. Jim Phene** of **Lakos, USA**. The presentation went on details on the application of centrifugal water filtration to protect expensive chilled water system equipments (chillers and cooling towers).

**Hygienic Aspects in an Air Handling unit** – Presented by **Mr. Gabor Szekeres** of **Rosenberg, Germany**. The presentation demonstrated hygiene requirements in the air handling units. It also demonstrated various European standards that deal with and govern air handling units' hygiene percussions and requirements.

The event was attended by excess of a 100 local ASHRAE members and non-member HVAC professionals.

The ASHRAE Chapter board of governor expresses their gratitude to the event sponsor, the speakers and to the College of The North Atlantic for supporting ASHRAE mission in providing the College facilities for the benefit of the Chapter and the profession.

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## The Green Building Council of Australia



Choosing green building rating system to measure sustainability is important issue. However it is important to emphasize on achieving sustainable design first then rate it to specific green building rating system. This issue of the ASHRAE—Qatar Oryx Chapter newsletter sheds the light on GREENSTAR, the Australian green building rating system .

**Greenstar** is Australia's national volunteer rating system developed by the Green Building Council of Australia and has also been modified and adopted in New Zealand and South Africa. It was originally based on BREEAM and LEED but changed to suit the Australian environment.

The system is similar to the other rating schemes and has separate categories which include management, energy, water, land use and ecology, indoor air quality, transport, materials, emissions and innovation.

The rating score is determined by calculating the score in each category and then applying an environmental weighting to each score. This weighting varies depending on the geographical location. The final score is determined by adding the weighted categories scores and any innovation points. Not all credits are applicable to every project and these are excluded from the rating scale.

The **Greenstar** rating is from 1 to 6 stars. The Green Building Council of Australia only certifies buildings that achieve a rating of 4 (Best practice), 5 (Australian Excellence) or 6 Stars (World Leader).

It is interesting to compare **Greenstar** with LEED and BREEAM.

A study has been carried out by team at the Glasgow-based simulation company IES led by Ya Roderick. They compared only the energy component with accounts for about 15% of the ratings. The building they studied was a hypothetical 8 storey open planned commercial building with a 3 storey carpark in Dubai and energy modelling was carried out using IES. **Greenstar** uses the greenhouse gas emissions from operating the base building services and compares it with specified targets to determine the rating. LEED compares the proposed building with a baseline model set up with 4 orientations. The energy cost of the proposed building is compared with the baseline building. In BREEAM, the greenhouse gas emissions of the actual building are compared with a reference building to obtain the rating.

The results were that the building did not achieve the 10.5% improvement in energy costs to be rated under LEED but fell into category B (2 credits out of a possible 15) for its energy rating under **Greenstar**. It may be that the low Greenhouse gas coefficient of

0,434kgCO<sub>2</sub>/kWhr compared with an average of around 1kgCO<sub>2</sub>/kWhr for Australia was the main reason or the high score using **Greenstar** - if the coefficient was changed to 1kgCO<sub>2</sub>/kWhr the number of points achieved reduces to 1 out of 20. It does however raise the issue that particular rating schemes may need to be changed to suit different countries or climatic regions. Perhaps also LEED's energy rating system using ASHRAE 90.1 may need modification to be appropriate for the Middle East area.

Refer to [www.gbca.com.au](http://www.gbca.com.au) for more information.

**By: IAN LINDQUIST**  
**Senior Project Director, Services Line Leader**  
**GHD Qatar**

### IMPORTANT DATE

**PENCIL THE FOLLOWING DATES IN YOUR DIARY FOR OUR COMING ASHRAE TRAINING DAY EVENTS**

- **May 8th 2010** — ASHRAE Qatar Chapter 2010—2011 elections — Shattir Abbas Restaurant
- **May 22th 2010** — Building Thermal Insulation by KIMMCO — College of The North Atlantic
- **June 5th 2010** — Continuous Commissioning Workshop — Texas A&M University — Qatar Foundation



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