Toward New Future

Eng. Hisham Marzouk
ASHRAE Chapter President

On the light of the current challenges of HVAC industry in Egypt,

It has been my privilege to serve as president of ASHRAE Cairo Chapter from September 2003. In the next year or so we have an ambitious aggressive program that would be based on the activities of nine main committees each of them had full and varied activities, these committees are:

1. Continued education.
2. Yearly exhibition & Seminar
3. Technical lecture / Seminar
4. Web site launching
5. Chapters regional conference, RAL organizing
6. Honours & awards
7. Chapter program, reception and publication
8. Technical workshops

These committees will operate along side the traditional active ones, such as students' activities committee & membership promotion committee. Weekly meetings are held for the committees and the product of their endeavour is reflected on the welfare of HVAC activities.

We hope that our endeavour will be successful and the good work of ASHRAE members will continue to perpetuate.

Finally my best wishes for our board members for a fruitful and challenging new term.

HVAC Industry in Egypt
Challenges and Prospective Future

Essam E. Khalil
Professor of Mechanical Engineering, Cairo University, Egypt
ASHRAE Chapter Vice President

On the light of the current challenges of HVAC industry in Egypt, AIR Conditioning and Refrigeration industry had flourished in Egypt since the beginning of this century. Basically as an importing country, central refrigeration machines for ice making plants and food industries were among the first pilot projects. Back in the fifties of this century, Air-conditioned cinemas and theatres were built both at Cairo and Alexandria. Few individual attempts to institutionalize the private HVAC Industry were started by, among others, ELTAHRY, and BARAKAT families. Koldair. A government owned manufacturer and contractor dominated the Egyptian market for manufacturing some small DX units, cooling towers and air handling units in the sixties and seventies.

In the Seventies and Eighties, Egypt started a new investment policy encouraging private industry in the Air conditioning and refrigeration such as MIRACO (licensed from CARRIER) and CAC. Figure 1 shows the progress of local manufacture over the years.

Figure 1: HVAC Capacity Development in Egypt over the years.
HVAC Industry in Egypt
On the light of the current challenges of HVAC

Local Manufactured Air Conditioning Units

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>CAPACITY RANGE</th>
<th>LICENSE</th>
</tr>
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<tbody>
<tr>
<td>Air Handling Units</td>
<td>Up to 100,000 CFM</td>
<td>SIEVER &amp; TROX</td>
</tr>
<tr>
<td>Condensing Units</td>
<td>Up to 120 kW</td>
<td>CARRIER</td>
</tr>
<tr>
<td>Fan Sections</td>
<td>Up to 100 kW</td>
<td>ROSENBERG, WOLTER, GENERAL FAN</td>
</tr>
<tr>
<td>Packaged/Direct Expansion Units</td>
<td>Up to 70 kW</td>
<td>CARRIER</td>
</tr>
<tr>
<td>Window Units</td>
<td>Up to 7 kW</td>
<td>CARRIER, TRANE, YORK, WESTINGHOUSE</td>
</tr>
<tr>
<td>Room Units</td>
<td>Up to 15 kW</td>
<td>CARRIER, TRANE, YORK, WESTINGHOUSE</td>
</tr>
<tr>
<td>Cooling Towers</td>
<td>Up to 700 kW</td>
<td>EVAPCO</td>
</tr>
</tbody>
</table>

The local manufacture of HVAC equipment can be summarized as indicated in the following table, comprising: Air Handling Units, Condensing Units, Packaged/Direct Expansion Units, Domestic window and split air conditioners. Cooling Towers are also manufactured locally under license.

ASHRAE-RAL
Cairo 6th - 8th September 2003

This event was held at Hilton Dreamland, 6th October resort, Cairo during the period 6th to 8th September 2003. It was hosted by ASHRAE Cairo Chapter. The event comprised technical sessions and business meetings. The Technical Sessions were held and included two main sessions:

- Indoor Air Quality, IAQ
- Energy

The attendance was over 100 specialists in the fields of Air Conditioning.

The event was attended by ASHRAE Chairman Mr. Richard Rooly and Mr. Townsend, the Vice Chairman as well as Delegates from United Kingdom, India, Sri Lanka, Lebanon, Kuwait, Emirates and Lebanon.

2ND INTERNATIONAL ENERGY CONVERSION ENGINEERING CONFERENCE
TECEC 2004
16 - 19 August 2004
Rhode Island Conversion Center
Providence, Rhode Island

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Prof. Dr. Ashwani K. Gupta
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- Energy Storage
- Aerospace Power Systems

Steering Committee Member
Prof. Dr. Essam E. Khalil
Cairo University
Cairo, Egypt
00202/335-6090

For more information, contact AIAA at:
Phone: 703/264-7500
Fax: 703/264-7657
E-mail: aiaa@american-institute-aerospaceengineering.org
# Cairo Chapter Committees

<table>
<thead>
<tr>
<th>Committee</th>
<th>Chairman</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programs Committee</td>
<td>Eng. Aly Ramadan</td>
</tr>
<tr>
<td>Lecture Committee</td>
<td>Prof. Dr. Mostafa El Sayed</td>
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<tr>
<td>Awards and History</td>
<td>Eng. Mohamed Salem</td>
</tr>
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<td></td>
<td>Eng. Salah Soliman</td>
</tr>
<tr>
<td>Scientific Committee</td>
<td>Prof. Dr. Mahmoud Fouad</td>
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<tr>
<td>Hospitality Committee</td>
<td>Eng. Sabry Al Naggar</td>
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<tr>
<td>Finance Committee</td>
<td>Mr. Emad Mokhtar</td>
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<tr>
<td>Exhibition Committee</td>
<td>Eng. Fouad Hamad</td>
</tr>
<tr>
<td>Web Site Committee</td>
<td>Eng. Mohamed Mansour</td>
</tr>
<tr>
<td>News Letter Committee</td>
<td>Eng. Mahmoud Fikry Dr. Ramiz Kameel</td>
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**Mailing E-mail**

**HVAC NEWS**

**Egypt**

**ASHRAE NEWS LETTER**
### ASHRAE Technical Lecture Program (2003-2004)
(Tentative Program as Per Sept 2003))

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecturer</th>
<th>Subject</th>
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<tbody>
<tr>
<td>Oct 15, 03</td>
<td>Prof. Essam E. Khalil</td>
<td>Hospitals Air Conditioning System</td>
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<tr>
<td>Oct 22, 03</td>
<td>Eng. Mahmoud El-Kholy</td>
<td>To Be Announced</td>
</tr>
<tr>
<td>Dec 24, 03</td>
<td>Eng. Mohamed Hannam Hannam Industries</td>
<td>Fans: Sound and Noise</td>
</tr>
<tr>
<td>Jan 21, 04</td>
<td>Dr. Akram Abdu</td>
<td>Operation and Maintenance of Cold Stores</td>
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<tr>
<td>Feb 18, 04</td>
<td>Alexandria University</td>
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<td>Mar 24, 04</td>
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<td>Apr 21, 04</td>
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<td>May 19, 04</td>
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</tbody>
</table>

**Location of Lectures:** As will be announced for each event.

For any information about the program, please contact:
Prof. Mustafa M Elsayed, Lecture Program Coordinator
Proservices: 02-4050315, 2607534, "mustafa@starnet.com.eg"

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### ASHRAE Technical Courses Program (2003-2004)
(Tentative Program as Per Sept 2003)

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecturer</th>
<th>Subject</th>
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<tbody>
<tr>
<td>Oct 7, 03</td>
<td>Prof. Dr. E.E. Khalil</td>
<td>Air Side Design</td>
</tr>
<tr>
<td></td>
<td>Prof. Dr. M.A. Foud</td>
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</tbody>
</table>

Location of Lectures: As will be announced for each event.

For any information about the program, please contact:
Prof. Mahmoud Foud, Educational Lectures Program Coordinator