



HAAHE Presents:

Energy Management Journey at UT MD Anderson

Arnold Granger, P.E., CEM, Director of Energy Management for UT MD Anderson
&
Dr. Yeqiao Zhu, PE, MBA, Director of Facilities for UT MD Anderson Healthcare Main
Campus

November 13th at 11:30 AM – 12:45 PM
Crowne Plaza, Reliant Park/Medical Center
8686 Kirby Drive, Houston, TX 77054

Program:

Hospitals, clinics and medical research facilities are facing uncertain futures as reimbursements and grants decline and expenses increase. The American Society for Healthcare Engineering (ASHE) has reported that energy and utility consumption could make up as much as 50% of a typical hospital's operations and maintenance budget. At UT MD Anderson (UTMDA) Cancer Center, the utility/energy spend averages \$1M per week or about 25% of the Facilities Management annual budget. All indications point towards increasing utility and energy costs for the future. Thus, energy management is a major point of emphasis for MD Anderson facilities.

Along with many other healthcare institutions, UTMDA has been pursuing a wide range of energy conservation measures over the last 10 years and in particular for the past 5 years. These efforts have resulted in improving UTMDA's energy utilization index (BTUs/GSF) by approximately 35% while building space has more than doubled over the same time period. A total of over \$7 million in energy costs have been saved in the past 5 years through energy management efforts.

This program will provide an overview summary of UTMDA's activities relative to utility management and energy conservation by discussing the following topics:

- General Overview of UT MD Anderson Cancer Center
- Utility Providers and Spend
- Energy and Utility Trends
- Energy & Sustainability Initiatives
- General Energy Conservation Measures (ECMs)
- Specific Examples of Capital and Non-Capital ECMs
- Energy management implementation strategy, guiding principles and team collaboration
- Innovative energy solutions for healthcare environment
- High performance sustainability
- Energy and cost savings

About the Speaker:

Arnold Granger, P.E., CEM is Director, Energy Management for UT MD Anderson. He has been employed in the UTMDA Facilities Management Division for a little over 10 years. Previously, he worked 32 years for CenterPoint Energy as Director, Engineering & Construction for power plants and the downtown Houston district cooling business. Presently, Arnold is responsible for all utility supply,



budgeting, trending, payments and reporting along with the promotion and implementation of energy conservation activities for the institution.

Dr. Yeqiao Zhu, PE, MBA, is Director of Facilities for UT MD Anderson healthcare Main Campus. He has over 28 years of professional experience in healthcare facility management, energy management, building commissioning, engineering and design management, large healthcare facilities project support, healthcare compliance, and commercial facility management. Previously, he worked for Texas A&M University, Enron, and SSR.

Dr. Zhu has served as a panel reviewer for "ASHE Health Facilities Commissioning Guidelines". He is co-author of the "ASHE Health Facilities Commissioning Handbook." As one of the award recipients, Dr. Zhu received the 2013 ASHE "Excellence Award for Facility Management." He is a member of the Advisory Committee for ASHE Commissioning Task Force, TAHFM Regional Rep, and was 2012 President of HAAHE. He is awarded as SASHE from ASHE in 2014.

About the Organization:

HAAHE is a non-profit group organized specifically for the benefit of the Healthcare Facilities Management team. Membership is focused on Hospital Facilities and Safety Management staff. In addition, Engineering Consultants, Contractors, Vendors, and Architects whose primary function is to provide consulting, design services, and products to the hospital engineering environment are welcomed.

The purpose of HAAHE is to provide a forum for continued improvement of hospital engineering in the greater Houston area. The venue for improvement will be through education, sharing of experiences between members, and presentations by experts in their respective field on a bi-monthly basis. If you are already a HAAHE member, please get involved by attending our meetings every other month. If you are not yet a member, you may join by completing a membership application at the next meeting. Lunch is included and will be free for paid members and \$15 for non-members.

For the Calendar year 2015, we are now accepting membership renewals. Membership fees will be:

Hospital employees:	\$50.00 annually
Vendors/Associates:	\$100.00 annually

Sponsorship:

Sponsorships are available for each luncheon session. For \$300 per vendor, you will be allotted a single table space to display brochures and wares prior to the luncheon presenting, will be recognized on our website as a luncheon sponsor, and will be introduced prior to the session start. An exclusive sponsorship arrangement is available for \$1,200. Please contact us at playegh@mdanderson.org with any questions or sponsor requests.

Location:

The Crowne Plaza Reliant Park/Medical Center is located at 8686 Kirby Drive, Houston, TX 77054. It is physically located at the northwest intersection of Loop 610 and Kirby Drive, across from Reliant Park. For directions:

http://maps.google.com/maps?f=q&source=s_q&hl=en&geocode=&q=8686+kirby+drive,+houston&sl=37.0625,95.677068&sspn=39.644047,92.900391&ie=UTF8&hq=&hnear=8686+Kirby+Dr,+Houston,+Harris,+Texas+77054&z=16

RSVP/Information:

Please RSVP at our new website www.HAAHE.org. For more information please feel free to contact us at avinson@victaulic.com or by phone at 281.900.0951.