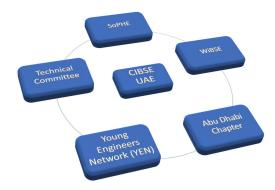


#### Welcome to the latest Newsletter

Welcome to the latest edition of the CIBSE UAE Newsletter. This edition covers the activities of the committee over the past several months. With a focus on some key events and achievements in order to keep the wider CIBSE community in the UAE updated.



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## **Seasons Greetings**

CIBSE UAE would like to wish all our readers a Merry Christmas and a Prosperous New Year 2021!

May your holiday season be filled with joy, happiness and success.





#### SoPHE UAE Update

The Sophe UAE chair has changed from Keith Perry to Giovani Tauckoor. We thank Keith for all his hard work and commitment to the Sophe UAE region and wish him well in his future endeavours.

Giovani is a Chartered Public Health Engineer with 17yrs experience in the Building Services sector and has worked and lived in Mauritius, Seychelles, United Kingdom and United Arab Emirates as a Public Health/Project Engineer. As chair, Giovani is committed to work with SoPHE & CIBSE to enhance the SoPHE UAE regional profile.

Adam Smith from Polypipe Middle East will be the new vice chair, Adam has been in the region for over 10 years and brings with him diverse innovation and supply chain knowledge to the team. Polypipe have committed their continued support to SoPHE UAE and will continue to sponsor the society for the 5th year running. We would like to express our deep appreciation to Polypipe for supporting SoPHE since the regional launch to date.

The key objective of SoPHE in the UAE region is to facilitate knowledge sharing via CPD's and promote more integration among industry stakeholders. The seminars & technical events are primarily focused on key challenges in the UAE region and help promote knowledge and relationship building across the sector. SoPHE UAE has successfully hosted its first online webinar in October on 'SUDS and Storm Water Management in the Middle East', presented by Polypipe and have the following CPD's planned in December 2020.

- Siphonic Drainage System (Geberit)
- Domestic Hot water system balancing & Legionella Control (Caleffi)

SoPHE and CIBSE UAE committee have collaborated on a set of regional design guides for building services in Dubai. The same is being developed for other UAE regions which have different authority jurisdiction. SoPHE aims to bridge the gap between the authorities and consultants, facilitating the approval process and at the same time ensuring consistency and good engineering practice from project to project.

SoPHE UAE acknowledge the challenges that Public Health Engineers faced in the region with aggressive deadlines, type & scale of developments and difficult climate conditions. SoPHE UAE have a strong emphasis on membership aiming to upscale the profile of Public Health Engineer and safer buildings in the region.



Giovani Tauckoor SoPHE UAE Chairman



Adam Smith SoPHE UAE Vive Chairman



## CIBSE UAE YEN Committee for the year 2020-21





#### CIBSE UAE Regional Sub Committee for 2020-21

Isaac Coker

Technical	Suh_	Com	mittaa
TECHNICA	ı Jub-	COIL	HILLEE

Ulali	Isaac Cokei
Member	Reid Donovan
Member	Drew Tinsley
Member	Jim Sebastian
Member	Alejandro Falcon Bonilla
Member	Ashveen Jeetun
Member	Pedro Cadima
Member	Amruta Kshemkalyani
Member	Issam Hammad
Member	Hassan Ali Younes
Member	Pradosh Krishnamoorthy
Member	Kareem Fathy Ibrahim
Member	Bushra Anwar
Member	Sarfraz Daikee

SoPHE

Chair

Chair Giovani Tauckoor
Vice Chair Adam Smith

WiBSE

WiBSE Representative: Nikoleta Stefanaki

Abu Dhabi Chapter

Chair Abu Dhabi Chapter Dan Williams
Membership Secretary Abu Dhabi Chapter: Richard Ebrahim
Events/Social Secretary Mohd AbuBaker

Young Engineers Network (YEN)

YEN Chair Prabhakaran Gunasekaran

YEN Vice Chair Fahim Ashraf

YEN Technical Officer Mohammed Shamroukh

YEN Communication Officer Nizam Ahmed YEN Membership Officer Azra Hussain

Education Liaison Officer Mohamed Masud Faridi / Chrysatall Thomas

Student Representative Subiksha Sugumar / Sai Rohit Behara

CIBSE YEN/ASHRAE YEA Liaison Munis Hameed YEN Hon Secretary Jerin Jacob



# EmiratesGBC accelerates built environment sustainability in the MENA region with Retrofit Training

According to a Global Alliance for Buildings and Construction's report, buildings and the construction sector accounted for nearly 39 per cent of energy and process-related carbon dioxide emissions in 2018 out of which 28 per cent came from operational carbon and 11 per cent from energy used to produce buildings and construction materials – which is generally described as embodied carbon. This highlights a strong need to reduce both operational and embodied carbon in the real estate development sector.

EmiratesGBC, an independent forum aimed at conserving the environment by strengthening and promoting green building practices in the region, is committed to fostering dialogue and tangible action on promoting sustainable built environments. The official Green Building Council in UAE recognised by the World Green Building Council, EmiratesGBC advocates for Deep Retrofits, defined as a whole building analysis and construction process, whereby the project is considered as a single integrated system rather than several stand-alone systems. This practice reduces site energy use intensity by at least 50 per cent compared to the baseline site energy use intensity. This target can be achieved by prioritising energy efficiency measures over renewable energy generation, wherever it is cost effective.

To build capacity in the market necessary to achieve retrofit targets, EmiratesGBC launched its Building Retrofit Training Programme more than three years ago in partnership with the Dubai Supreme Council of Energy and Masdar, the Abu Dhabi Future Energy Company. The programme is designed to strengthen knowledge among building and construction sector stakeholders on the fundamentals of building retrofit and improvement of energy and water efficiency. It helps to make current buildings sustainable through learnings from industry experts.

To understand the current UAE retrofit market awareness and capabilities, as well as the challenges and opportunities related to deep building retrofit projects, EmiratesGBC recently completed the 'Advancing Deep Retrofits in the UAE Study' in which 84 per cent of the respondents said deep retrofit of buildings with 50 per cent energy savings is completely achievable in the UAE. 70 per cent agreed that the technology for deep retrofit is already available in the market.



The study also found that 45% of the developers believe that the retrofit market can be accelerated by

mandating energy and/or water performance certificates for existing buildings. Many initiatives such as linking building performance to rental costs, dynamic tariffs rates to promote higher building efficiency, green loans or lower interest rates, tax-rebates and grants for energy efficiency-related projects can also help to achieve the goals of deep retrofit. EmiratesGBC believes that long-term value of deep retrofit outpaces the initial costs and recommends achieving deep retrofits by reducing energy demand and implementing energy efficiency measures before addition of on-site renewable energy generation, where cost-effective.

To support the real estate industry in retrofit training, the Building Retrofit Training programme consists of two levels - Introductory and Advanced - and is designed specifically for the MENA region. The introductory course highlights energy, water, air quality, materials & waste and innovative management aspects of the retrofit programme and it is perfect for building owners, key decision makers in the construction sector, students and those wanting to increase their awareness of sustainable buildings.



The advanced course takes a deep dive into all topics related to building retrofits. The Advanced course is suitable for engineers, architects and technical experts currently undertaking retrofit projects who wish to enhance their knowledge about the retrofit principles and methods.



The participants also get to take part in an examination and upon passing they get the privilege to become EmiratesGBC certified Building Retrofit Specialists. The upcoming classes for the introductory sessions, now offered online, are scheduled for November 11 & 12 and the advanced sessions on November 29 & 30, and December 6 & 7 this year.

Through Building Retrofit Training and sharing knowledge on Deep Retrofit, EmiratesGBC aims to support the UAE Energy Strategy 2050, the Dubai Integrated Energy Strategy target to reduce energy and water use by 30 per cent by 2030, UAE's commitment to the Zero Carbon Buildings for All and the various emirates' strategies to retrofit existing buildings.

In September 2020, EmiratesGBC also unveiled its study on the UAE Green Building Market and the current sentiments when it comes to green buildings in the UAE region. The evidence-based study showcased that UAE has nearly 64 million sq. m built-up area as per local green building regulations and 386 LEED certified projects as of April 2020 with a total built up area of 5.9 million sq.m.

EmiratesGBC conducts various technical trainings and studies into order to push the boundaries of green buildings in the UAE and the wider MENA region.



# CIBSE UAE Annual Gala Dinner & Awards Night

The CIBSE UAE Region will host an Annual Gala Dinner & Awards Night being held in March. Further details will be posted on our social media closer to the time.





#### **WIBSE UAE Events**



WIBSE have successfully delivered some events in 2020 and have several more exciting events planned for 2021

2020 16th September 2020 #lamremarkable workshop by women's Leadership Coach Damian Smith CPCC ACC.

9th December 2020 Inclusive Leadership Drives High Performance' by Dr Ian Dodds FRSA, Lotus Award Winner, 2017, for Lifetime Achievement in Pioneering Inclusive Cultures.

2021 6thJanuary 2021 #lamremarkable session 2 workshop by women's Leadership Coach Damian Smith CPCC ACC.

• 3rdFebruary by Alexandra Hodge, Co-Founder KiKu Ltd Coaching Agency

September 2021 TBC November 2021 TBC



# #lamRemarkable You are NOT where you could be, and 4 things YOU can do about it now!



I am honored to be asked to facilitate a second #IamRemarkable for WIBSE UAE. #IamRemarkable is a Google initiative aimed at supporting women and underrepresented minorities in claiming their achievements. From the quantitative feedback data gathered, the first was a huge success, with 100% of participants saying they were more likely to self-promote. We also had a fun time with some deep connections and at least one major life shift!

Is it a level playing field?

It's no surprise that research shows that while women are well represented as middle managers, their numbers drop when making the jump to VP-level executives.(1)

This all the more disappointing when you consider the following from a Deloitte study. "The benefits of diversity extend beyond the four walls of any single corporation. The trickle-down effect of women in the boardroom, such as breaking down stereotypes, encouraging girls and young women to pursue careers traditionally dominated by men, and breaking down the wage gap are all important steps along the way to greater economic opportunity for women and to more inclusive workforces and societies." (2)

And yet now, women only occupy about 16.9 percent of the board seats globally (3).



#### Why?

Obviously there are many drivers of this inequality, from unconscious bias, outright sexism and cultural norms to huge differences in maternity and paternity leave and related behaviors in most countries.

One of the big hurdles women face when tackling this gap is practising self-promotion - or vocally expressing their achievements in a working environment.(4)

I'm sure many of you reading this feel that men are far more comfortable with self-promotion than women. It's backed up by recent research that shows in fact, when asked "what are your strengths?" in a job interview, how you answer may depend on your gender.(5)

The societal gender norms that mean that women are seen as less likable, socially attractive and therefore hirable when they self-promote and this creates a valid fear of the backlash that is actually more acute from women. (6) That's right women are more likely to define these gender norms than men! Whenever I bring this up in workshops there is always vigorous nodding from the women in the room.





Damian Smith ACMA, CGMA, CPCC, ACC Education Author

"From the quantitative feedback data gathered, the first was a huge success, with 100% of participants saying they were more likely to self-promote.

We also had a fun time with some deep connections and at least one major life shift!"



How can I change how I have always felt?

When was the last time that you thought "I could speak up now and voice my achievement"? Then your stomach knots, your throat goes dry, you pause, and the discussion moves on or worse someone, probably a man, has taken credit for something you came up with or actually did.

And we can change this, neuroscience shows that we can through practice create new habits.(7)

4 things you can do now!

#### 1: WIBSE #lamremarkable Workshop

If you would like to explore Self-Promotion in a safe space with other women that feel that same, join us in the upcoming WIBSE workshop in January. See separate notifications.

- 2: Encourage a culture to claim achievements in regular meetings Create space in your team meetings, or ask your manager to, start by asking everyone to share one thing they have achieved since you last met. The achievements can be anything, big or small, work related or personal. By doing this we create a culture where self-promotion is normal and practise, it reduces the likelihood of the backlash effect in the team and company.
- 3:Track your accomplishments in a log.

You can refer back to this and then verbalize the specifics. People are more likely to rely on their preconceived notions and stereotypes in ambiguous situations.(8)

#### 4: Gallup Strengths Assessment

Take a Gallup Strengths Assessment and work with a Gallup trained coach to understand, take ownership of and leverage your unique talents. This gives you the statistical evidence of your strengths and a language to effectively describe your contributions. I use it with most of my clients and the impact in career progression has been awesome.

#### References

(1) Correll, Shelley, and Caroline Simard Simard. "Research: Vague Feedback Is Holding Women Back." Harvard Business Review. N.p., 29 Apr. 2016. Web. 22 Feb. 2017.

(2)Deloitte Global's latest Women in the Boardroom report highlights slow progress for gender diversity (Oct 2019)https://www2.deloitte.com/id/en/pa ges/risk/articles/women-in-the-boardroom-report-highlights-slow-progress-for-gender-diversity-pr.html

(3) Dan Konigsburg, Senior Managing Director, Deloitte's Global Center for Corporate Governance.

Deloitte Global's latest Women in the Boardroom report highlights slow progress for gender diversity (Oct 2019)

https://www2.deloitte.com/id/en/pages/risk/articles/women-in-the-boardroom-report-highlights-slow-progress-forgender-diversity-pr.html

- (4) Kay, Katty, and Claire Shipman. The confidence code: the science and art of self-assurance--what women should know. New York, NY: HarperBusiness, Harper Collins Publishers, 2014. Print.
- (5) Cahn, N. (2020). Do Women And Men Have A Confidence Gap? https://www.forbes.com/sites/naomicahn/ 2020/02/26/do-women- and-men-have-aconfidence-gap/5)
- (6) Rudman, Laurie A. "Self-promotion as a risk factor for women: the costs and benefits of counter stereotypical impression management." Journal of personality and social psychology 74.3 (1998): 629.
- (7) Shirzard Charmine, Positive Intelligence. Green Leaf Book Group Press 2012.



#### Healthy Buildings Conference

On Wednesday 26th of August 2020, built environment enthusiasts of the region witnessed the first ever virtual conference by the CIBSE UAE. The conference was titled 'Healthy Buildings' making it more relevant in this time of a pandemic. The virtual event was graced by speakers associated with professional institutions such as the RIBA Gulf chapter, International WELL Building Institute (IWBI), CIOB, ASHRAE Falcon chapter and other built environment related establishments. Speaking of participants, the event saw professionals, students and members of the public joining from across the globe.



This was a CPD certified event and participants were awarded CPD certificates after the session. The whole event was beautifully moderated by Julian Jones from the CIBSE HQ. The entire session lasted for a good three hours covering presentations from individual speakers and a panel discussion at the end.



Marc Lynch Education Liaison Officer

"My aim is to inspire and encourage students to pursue a career in building services.

Establish local University
Network and conduct events
to promote CIBSE UAE.

Development of Best Practice Design Standards and Technologies applicable to the region"



#### YEN Update

The Young Engineers Network have had a busy year and managed to host several successful events

# Degassing System in closed loop HVAC Network

The session is designed to help participants get familiar with Degassing Systems and its importance in a closed loop HVAC Network and was presented Mohamed Farid by of Reflex



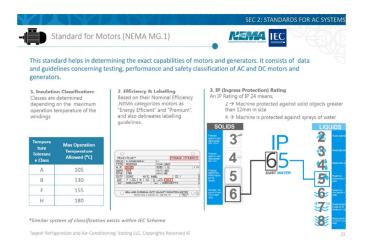
# AC Performance Standards & Local Regulations: Fundamentals and Insights

This webinar took place in August. The session is designed to help participants get familiar with test standards and product compliance within the context of UAE regulations as well as international regulations.

Also covered therein are certain associated facets of power factors, procedures for test standards, and the minimum performance requirements for registering for a regulation.

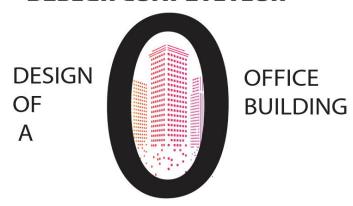
The session will conclude with a presentation on Part Load Performance and the insights gleaned from a study conducted on the same.

The session was presented by Mohammed Shamroukh of Taqeef Refrigeration & Air-Conditioning





# INTER UNIVERSITY STUDENT DESIGN COMPETITION



# CIBSE U.A.E INTER-UNIVERSITY STUDENT DESIGN COMPETITION Net Zero" Office Building

This student competition requires multidisciplinary teams to design an energy efficient sustainable project approaching Net Zero. The project team needs to design a two storey 1200 m<sup>2</sup> office building with minimized energy demands for HVAC and all other technical systems that could be satisfied with locally available or building-installed renewable energy sources (RES). Students will be asked to satisfy a national or local sustainability standard (LEED and, or, Dubai Al Safat), and then implement RES to approach "Zero Energy" limit.

The two storey (G+1) new facility will consist of approximately 400 to 600 m<sup>2</sup> of offices on first floor and 600 m<sup>2</sup> of offices and café on the ground floor. The cafeteria is meant to serve an average of 50 occupants per day.

In order to minimize construction disturbances on campus, the project team should consider the impact of alternate techniques such as off-site construction and waste eliminating design elements.

Building space types include office spaces, storage rooms, rest rooms, telecommunications, mechanical/electrical spaces, and café (non cooking similar to Starbucks).

This building project should incorporate innovative, energy efficient design principles and elements of flexible design approach emerging as a post Covid-19 requirement.

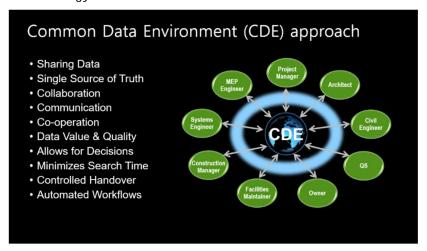


# Digital Strategy for Successful Project Delivery"

On November 5<sup>th</sup> CIBSE UAE hosted a presentation "Digital Strategy for Successful Project Delivery" This was presented by Craig Garrett, Independent BIM & Digital Delivery Manager & Strategic Advisor. The event was a webinar and was well attended by the industry.

The topics of the webinar included:

- A digital culture is vital
- Sound digital strategic planning
- Collaboration, communication, and co-operation
- Standards, procedures and workflows
- Education and knowledge share
- Full life cycle thinking, regardless of your role
- Technology and Innovation



The event also covered Case Studies of the below two projects.

- King Abdullaziz Centre for World Culture (Also known as ITHRA), Dhahran KSA
- Museum of the Future, Dubai UAE



Subbiksha Sugumar CIBSE YEN -Student Representative

"Being a vital channel between students and the CIBSE committee members for a better understanding of concepts to have effective feedback.

Also to develop student awareness and bring out their best interests in the engineering field."



#### Committee Members News!

CIBSE UAE Committee Member part of the Judging panel for the MEP Middle East Awards 2020



Our CIBSE UAE Technical Committee member Reid Donavan, formed part of the judging panel for this year's award which took place in the JW Marriott Marquis Hotel Dubai

#### **CIBSE Journal Articles**

How to make it as a female engineer in the UAE

Our CIBSE UAE Chair Farah Naz, wrote an article for the CIBSE Journal "How to make it as a female engineer in the UAE"

The full article can be accessed here:

http://portfolio.cpl.co.uk/CIBSE/202011/20/

# How to make it as a female engineer in UAE

When Farah Naz took up a senior sustainability post in Dubai, she was unsure whether the Emirate would back low carbon design or be open to female engineers taking on lead roles. Happily, she was wrong on both counts

am often asked what it is like to work as a female engineer in the Gulf From my experience, which includes being chair of the CIBSE UAE region, I can say that a lot is being done to address the gender gap, and make the engineering industry a career option for women in the profess.

Within six months of moving to Duba I realised the view I had of the region was mostly from the media and far from the reality I faced at work and on the



Recent regulation from the UAES Securities and Commodities Authority requires annimum 20% of the board of any listed company to be female - the first such requirement in the region. There are some amazing woman engineers in the region working on some groundbreaking projects and challenging the gender bias. I saw the professional opportunities



#### **CIBSE Committee Member Spotlight**



Imran Shaikh, CIBSE UAE Vice Chair was awarded the HVACR Engineer of the Year, Climate Control Awards 2020 organised by CPI Industry held on 24th November 2020.

See CIBSE UAE LinkedIn post for details <a href="https://www.linkedin.com/posts/cibseuae\_cibse-cibseuae-wearecibse-activity-6739582970518134784-U3iE">https://www.linkedin.com/posts/cibseuae\_cibse-cibseuae-wearecibse-activity-6739582970518134784-U3iE</a>

Imran also published an article "Sensible approach" which was published in the CIBSE Journal November edition. The article highlighted that It is very important that the terminal units are correctly sized and not over-sized. A poorly designed over-sized terminal unit would supply more air to the space than required and operate at a higher than designed off coil temperature to meet the sensible cooling demand of the space preventing the unit from delivering the selected total cooling capacity/ dehumidification. This can increase humidity in the space resulting in condensation, mold/mildew formation thus impacting thermal comfort and occupant health.

Link to the article. http://portfolio.cpl.co.uk/CIBSE/202011/56/



#### UAE is continuing to expand...

and we are looking for further support to enhance our offering to the membership, currently we have one position for which we need immediate assistance (volunteers), listed below.



#### **Honorary Treasurer**

The Hon Treasurer is responsible for:

- The receipt, safe keeping and disbursement of Region funds as authorised by the Committee
- Keeping adequate records of finances
- Keeping expenditure in line with budget
- Advising the Committee on preparation of budgets
- Submitting applications for funding and supplementary information to CIBSE Headquarters
- Keeping the Committee informed of the financial condition of the UAE Group

If you are interested in supporting the committee please contact us on: UAE@cibse.org



#### **Events**

CIBSE UAE are now using "EVENTBRITE" as the platform to create professional event ticketing and registration pages for all UAE events, this will enable the ability to manage and analyze our events and access real-time checkin data, but also has the function to manage and promote 24/7.

Past events

August

Region: CIBSE UAE Where: Webinar

When: 6th August 2020

What's on: Refrigerant Safety in Buildings

August

Region: CIBSE UAE - YEN

Where: Webinar

When: 19th August, 2020

What's on: AC Performance Standards & local Regulations: Fundamentals and Insights

August

Region: CIBSE UAE Where: Webinar

When: 26th August, 2020

What's on: Healthy Buildings 2020

#### **Upcoming Events for your Diary**

2021

6<sup>th</sup> January 2021

#lamremarkable session 2 workshop by women's Leadership Coach Damian Smith CPCC ACC.

3<sup>rd</sup> February

by Alexandra Hodge, Co-Founder KiKu Ltd Coaching Agency

CIBSE UAE will be holding a membership event with CIOB in the Spring of 2021



#### Social Media

CIBSE UAE SOCIAL MEDIA:

We would ask our members to kindly follow us on social media to keep up to date with our talks and events.

To Get more information about our committee:

CIBSE UAE Webpage: https://www.cibse.org/networks/regions/united-arab-emirates

Meet our Committee: https://www.cibse.org/networks/regions/united-arab-emirates/uae-committee

Please follow us on:

CIBSE UAE LinkedIn Page : https://www.linkedin.com/company/cibseuae/

CIBSE YEN UAE LinkedIn Page : https://www.linkedin.com/CIBSEYEN-UAE

Twitter: <a href="https://twitter.com/UaeCibse">https://twitter.com/UaeCibse</a>

#### **CONTACT US**

The Offices 02 Building in One Central, Dubai World Trade Centre Complex, Dubai, United Arab Emirates www.cibse.org

UAE@cibse.org







