



CIBSE
United Arab Emirates

Newsletter October
2021 Issue 13

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.



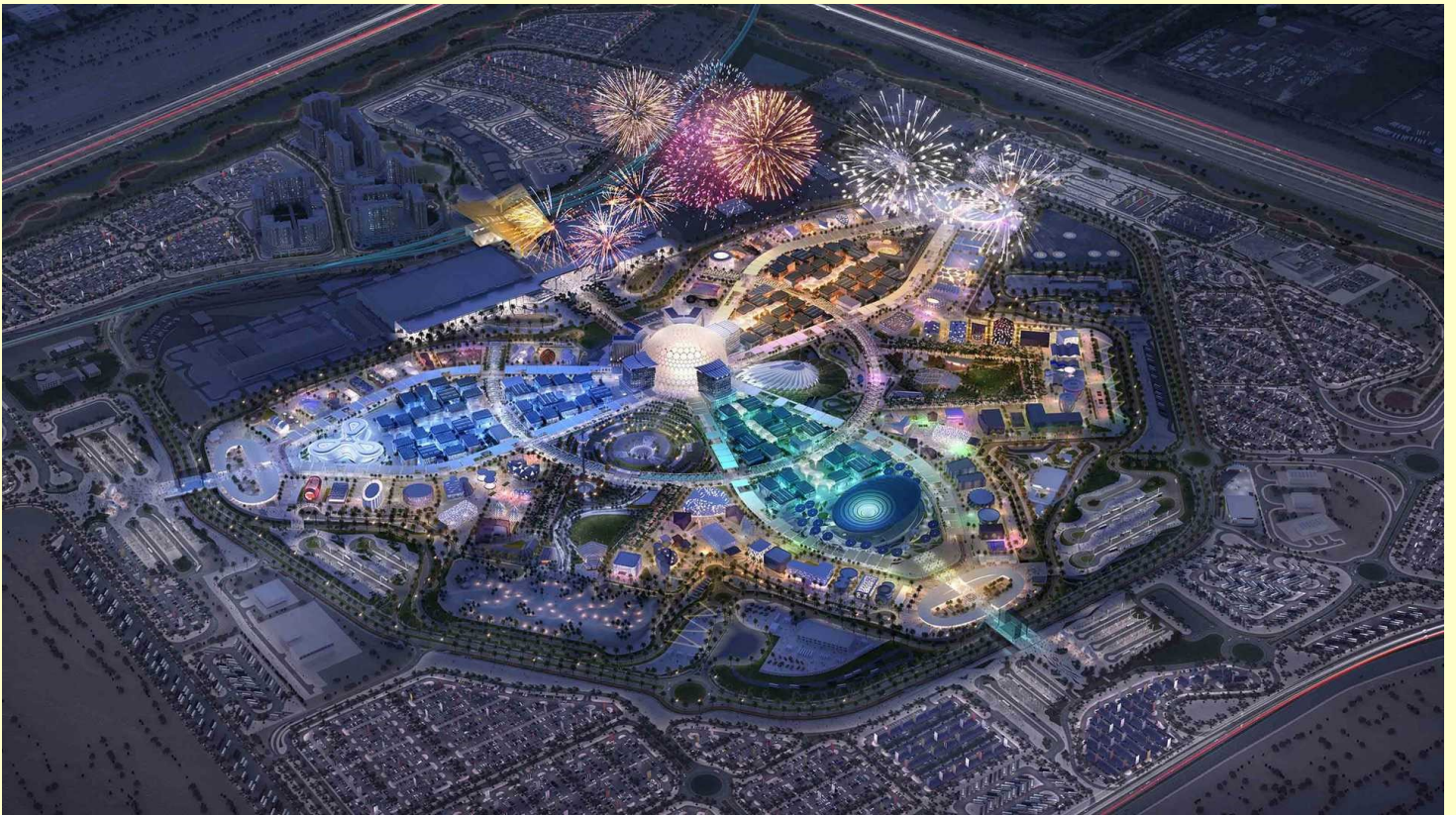
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Season's Greetings

CIBSE UAE would like to congratulate the leaders of the UAE for making the Expo 2020 Dubai vision a dream turned reality!

We are incredibly excited to see all our projects come to life in a week!



Launch of the Minimum Design Guideline for the region of Abu Dhabi and the Kingdom of Saudi Arabia



Following on from the success of the Design Guides for Dubai last year, CIBSE has released a set of MEP minimum design guidelines for Abu Dhabi and Kingdom of Saudi Arabia (KSA). Virtual launch event and Q&A session took place on 8th September, 5 pm U.A.E time and was well attended by building service Industry members in Middle East and abroad.

The Design Guides focus on design standards for mechanical services, electrical services and public health services. They have been produced to be used for initial design guidance and provide minimum design requirements for specific design issues.

The six guides are hyperlinked below:

1. Design Guide for Abu Dhabi (DGAD01:2021): Minimum design standards for mechanical services
2. Design Guide for Abu Dhabi (DGAD02:2021): Minimum design standards for electrical services
3. Design Guide for Abu Dhabi (DGAD03:2021): Minimum design standards for public health services
4. Design Guide for Kingdom of Saudi Arabia (DGSA01:2021): Minimum design standards for mechanical services
5. Design Guide for Kingdom of Saudi Arabia (DGSA02:2021): Minimum design standards for electrical services
6. Design Guide for Kingdom of Saudi Arabia (DGSA03:2021): Minimum design standards for public health services



The Guides have been produced in by the CIBSE UAE Technical Committee to promote best engineering practices in Abu Dhabi and KSA. It will assist new engineers going in each of the jurisdictions, building services professionals already working in the jurisdictions and also university students studying building services. Kudos to the team from CIBSE UAE:

SPEAKERS



FARAH NAZ, FCIBSE
Technical Director – AECOM
CIBSE UAE Chairperson



ISAAC COKER, FCIBSE
Technical Director – WSP ME
CIBSE UAE Technical
Committee Chair



**ALEJANDRO FALCÓN
BONILLA, MCIBSE**
Team Lead Mechanical –
RAMBOLL
CIBSE UAE Technical
Committee member



DREW TINSLEY
Associate Director – WSP ME
CIBSE UAE Technical
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**STEPHEN KELLY,
MCIPHE**
Team Lead Public Health
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RAMBOLL
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**PRADOSH
KRISHNAMOORTHY, MCIBSE**
Associate Director – WSP ME
CIBSE UAE Technical
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**MAHMOUD DERBALA ,
MEIT**
Associate Director – AECOM
CIBSE UAE Technical
Committee member



**GIOVANI TAUCKOOR,
MSOPHE**
Associate – WSP ME
CIBSE UAE Technical
Committee member



IMRAN SHAIKH, FCIBSE
Mechanical Lead – SSH
CIBSE UAE Vice Chair

They are available as PDFs only and are free to all. The guides can be downloaded from the CIBSE knowledge portal in the following link <https://www.cibse.org/knowledge>

Feedback and comments can be shared at uae@cibse.org.



CIBSE UAE Net Zero Conference



On March 10th and 11th CIBSE UAE held a two-day virtual conference. The event hosted a plethora of regional and international speakers engaging the audience in relevant net zero case studies and panel discussions. Moreover, the live event was attended by over 400 participants from across the globe.

Day 1 saw speakers from the region share live case studies and experiences on propelling the Net Zero movement within the region. Julian Jones, from CIBSE UK opened the session along with Azra Hussain, CIBSE UAE YEN's Membership Officer. We were delighted to have Majd Fayyad, Technical Officer at the Emirates Green Building Council give the Keynote Speech. This was followed by Yohaana Cama from Multiplex present a Case Study on Net Zero Workers Accommodation. Marwan Zeidan from Schneider Electric, UAE then shed light on the topic "Net Zero through Digitization and IOT". This was followed by Enas AlKhateeb from AME Design Group present regional research on Net Zero Commercial Buildings. Karim El-Jisr from Diamond Developers presented a case study on the Sustainable City while Hassan Younes from GRFN presented a study on a Net Zero Energy School in the UAE. Deepty KB, from GBCI Middle East briefly introduced LEED Zero, its vision and targets to the audience. Nazly Asadollahpour from Majid Al Futtaim then shed light on the advancement of the Net Zero movement through interesting case studies conducted in collaboration with the Emirates Green Building Council.



A panel discussion on the “Role and Realty of Net Zero in the UAE” was moderated by Azra Hussain with the panel consisting of Yohaana Cama, Sustainability Manger, Multiplex, Hassan Younes, Founder-Director, GRFN and Deepty K B, Regional Marketing Manager, GBCI Middle East.

Day 2 saw international speakers share their insights on the pathway to net zero buildings, their importance, and their impact. We were honored to have Victoria Kate Burrows from World Green Building Council giving the Opening Keynote Speech. This was followed by Din Ćatić from The Carbon Trust sharing their work with global brands and companies to achieve the UK’s Net Zero 2050 Targets. Presentations from academia by Andy Ford Professor London South Bank University, Dr Mohataz Hossain from Sheffield Hallam University shed light on the role of academia, innovation, and Research and Development.

Net Zero Case Study presentations from Australia by architect Dylan Brady from Decibel Architecture shed light on the “Pixel” project considered as Melbourne’s first net-zero building. Blake Jackson, from Stantec USA presenting on “Lessons Learned from a Decade of NZE”, whilst Sergio Sádaba shared insights of a net-zero project currently under construction. Architect Mina Hasman from Skidmore, Owings & Merrill (SOM) presented NYC net zero case studies.

The event was held in collaboration with a wide range of partners within the region and was supported by our knowledge partner, Emirates Green Building Council.



Access the Net Zero Conference Day 1 and Day 2 recordings on the [CIBSE UAE YouTube Channel!](#)

Day 1 video: <https://lnkd.in/gdZimzH>

Day 2 video: <https://lnkd.in/geWbPv5>



CIBSE UAE Annual Awards Night

This year's CIBSE UAE annual awards took place virtually on the 8th of April 2021. The awards show was a HUGE success with an overall viewership of over 1000 guests, felicitating winners in over 6 categories including the winners of first ever CIBSE UAE student design competition.

Held under the theme, 'Designing with a Purpose', the awards received over 40 nominations across five categories. In addition, eight universities participated in the first CIBSE UAE student design competition, of which four were shortlisted. A distinguished panel of five judges from the CIBSE headquarters, in the United Kingdom, and industry experts from the region were invited to decide the winners and the runners-up for each category.

Members of the Jury:

Tim Dwyer, Honorary Professor, UCL London, and Technical Editor CIBSE Journal



Hywel Davies, Technical Director, CIBSE HQ



Majd Fayyad, Technical Manager, Emirates Green Building Council



Shajahan Sahabdeen, MEP Manager, Al Wasl Group



Farhan Juratli, Project Manager, Nakheel



And The Winners:

Graduate of the Year:
Czarina Copiaco, Buro Happold



Runner Up:
Omar Darwish, GRFN Consultants

Young Engineer Of The Year, 2021:
Ann Elezabeth Johny, AURECON



Runner Up:
Christian Glen-Jones, Black And White Engineering
Ansh Singh, WSP Middle East

Manufacturer of the Year:
Polypipe Middle East



Runner Up:
GRUNDFOS





CIBSE UAE Student Competition:
Beyond Zero, Manipal University Dubai

Runner Up:
Heriot-Watt University, Dubai

Consultancy of the Year:
WSP Middle East

Runner Up:
WME



CIBSE UAE wishes to thank our sponsors who made this event a hugely successful one.

Catch the entire event here: <https://youtu.be/ngq-hG6aOU8>

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KEY PERSPECTIVES ON THE REGION'S HVACR INDUSTRY



Interuniversity Net-Zero Student Competition

This student competition required multidisciplinary teams to design an energy efficient sustainable project approaching Net Zero. The project team was tasked with the design of a two storey 1200 m² 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 were 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 m² of offices on first floor and 600 m² of offices and café on the ground floor. The cafeteria is meant to serve an average of 50 occupants per day.

The winners were announced during the Annual Awards ceremony on the 8th of April 2021. Out of the eight universities that took part in the competition, four universities made the finalists shortlist.

After an extensive jury session, Beyond Zero Team from Manipal University Dubai were declared winners with Heriot-Watt University Dubai, declared as runners up to the competition.

We would like to take a moment here to thank all our participants for outstanding participation and making the first event of its kind a huge success!





SoPHE UAE Update

SoPHE UAE has had a very eventful year in 2021 with numerous technical seminars being conducted in collaboration with various industry partners. A list of these sessions and their details have been provided below.

Copper and Silver Ionisation System and Legionella Control by Mark V. Engelenburg and Joris Boässon Borger, ATECA, the dutch water expert.

This session gave an insight into copper and silver ionisation systems used for legionella control and emphasised on the reductions that could be made in flushing. It emphasised on how the system can work with water of lower temperatures without the requirement to add any chemicals to the water for treatment.

Catch the session here: https://youtu.be/hFG_5vhj-c4



Filtration technology - Guide on correct selection & application by Adrian Aylett. *Hydrotec Systems (UK) Limited*

This session spoke about various filtration technologies and provided in depth guidance on correct selection and application of each filtration system. The session was delivered by Hydrotech Systems.

Water Treatment System by Mr. Rodger Macfarlane

This session highlighted the shift in water treatment systems from traditional methods to more alternate, sustainable options such as the use of treated sewage water, condensate recovery and greywater recycling. Mr. Rodger also spoke about the drive to reduce water and chemical consumption and on meeting the limitations of cooling towers and chiller manufacturers in the region.

Dehumidification & Drying Psychrometrics by Julien Tashcot

The webinar was delivered by Julien Taschot and took place on the 7th of July 2021 at 05:00 PM (GST). The session talks about how desiccant and condensing dehumidifiers work and the drying psychrometrics of desiccant and condensing systems and about the best practices in dehumidifier selection and installation how to correctly size a dehumidifier for a project. Catch the recording here: <https://youtu.be/ORMkdpwZ8WI>



CIBSE UAE YEN Update

It has been an eventful year for the CIBSE YEN Committee, with a lot of changes in tow!

Azra Hussain, Membership Officer with the CIBSE YEN Committee wrote an article on the Operational Waste Management for Hotels in the UAE. This has been published on the CIBSE UAE YEN LinkedIn page and can be found here: https://www.linkedin.com/posts/cibse-yen-uae_operational-waste-management-activity-6761713745254252544-JWe2

Prabhakaran Gunasekaran, Chair, CIBSE UAE YEN and Sundara Gurushev, Technical Officer CIBSE UAE YEN along with Marc Lynch Membership Officer, CIBSE UAE Main Committee, attended the Heriot-Watt Dubai Campus' Virtual Career Fair in the month of February to promote and expand the YEN community in the UAE.

The Interuniversity student design competition saw eight universities across the UAE compete to design a Net-Zero Office Building in Dubai. Four universities were finalized, and the winners were declared during the Annual Awards ceremony in April 2021.

Fahim Ashraf, Senior Mechanical Engineer, WME has been elected as the Chair for the CIBSE UAE Young Engineers Network. Nizam Ahmed, Mechanical Engineer, Mimar Group, will be the Vice-Chair for the tenure. Elections were held in the month of July with an open call for nominees sent out in the month of May. The elections saw Mohammed Shamroukh, Application Engineer, Taqueef and Nizam Ahmed compete for the role of Vice-Chair.

Prabhakaran Gunasekaran, Technical Engineer (HVAC), ASGC stepped down from his role as Chair after six years of contribution to the CIBSE UAE YEN Committee. Under his leadership, the network has seen a plethora of activities through the means of technical sessions been conducted for various topics. The hosting of the CIBSE Global YEN event in Dubai will be a highlight of Prabha's role as the Chair of the CIBSE UAE YEN.



“CIBSE YEN is a bridge between the buildings industry and our youth in universities. A lot of times, when the building engineers graduate, they lack the mentor and the guidance to steer them in the right direction in the industry. CIBSE YEN strives to narrow that gap for our youngsters, instill in them the core CIBSE values, and educate them about the CIBSE guides and knowledge from our experts, to ensure a smooth transition to the industry.”

-Fahim Mohammed
Chair CIBSE YEN (UAE)



CIBSE Member Activities

CIBSE Technical Symposium

In the annual CIBSE technical symposium organized last month, CIBSE UAE committee member Ashveen Jeetun presented his research on the Pathogens Management Train (PMT) in Public Health Engineering Systems with SARS-CoV-2 in the spotlight. His research discussed the proposal of new and existing procedures in public health engineering systems design with a specific focus on bioaerosols from drainage systems and drainage design generally, which is seldom considered for the spread of a disease.

Highlights of the entire symposium can be found here:
<https://www.cibsejournal.com/technical/engineering-the-new-normal-technical-symposium-highlights/>



Technical Symposium 2021



RICS – World Built Environment Forum

CIBSE UAE chair Farah Naz FCIBSE will be writing monthly columns on the world environment forum by RICS. Her series titled On the Brink, explores the importance of urban air quality and strategies for cities to improve urban air quality.

Read the first column here titled "On the brink - All we need is the air we breathe". The full article can be accessed here:

<https://www.rics.org/uk/wbef/megatrends/natural-environment/on-the-brink-all-we-need-is-the-air-we-breathe/#.YPxLuKU8s18.link>

This was followed by a second article in May 2021 titled, "On the Brink: Urban air quality - how did we get here?". Read the article on the RICS website here:

<https://www.rics.org/nl/wbef/megatrends/natural-environment/on-the-brink-urban-air-quality--how-did-we-get-here/#.YRLJ8PyQLrc.link>

A third article titled "On the Brink: A five-point action plan for improving urban air quality" was published in May 2021 and can be accessed here:

<https://www.rics.org/nl/wbef/megatrends/natural-environment/on-the-brink-a-five-point-action-plan-for-improving-urban-air-quality/#.YRLHUBHyXac.link>

A quote from her last article:

While it is true that climate adaptation work may require significant upfront investment, the evidence shows that it reaps enormous long-term economic dividends. It is money well spent.



Member Spotlight

A huge congratulations to Imran Shaikh Vice Chairman of CIBSE UAE Committee for being nominated to serve on the ASHRAE HBDP (High-Performance Building Design Professional) Examination Subcommittee comprising technical experts around the world. Imran is one of the few in the Middle East region who has been bestowed this privilege.

In his role, which will continue until 30 June 2024, Imran will be working with other technical experts in the field of MEP, sustainability, energy efficiency, commissioning and building controls to enhance the ASHRAE HBDP certification examination content.



CONGRATULATIONS !!!

MOHD. IMRAN SHAIKH

**ON BEING NOMINATED TO
SERVE ON THE
ASHRAE HBDP
EXAMINATION SUB-COMMITTEE**



Events

CIBSE UAE are using “EVENTBRITE” as the platform to create professional event ticketing and registration pages for all UAE events, this enables us to manage and analyze our events and access real-time check-in data, and also has the function to manage and promote 24/7.

Past events – 2021

6th January 2021

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

3rd February

by Alexandra Hodge, Co-Founder KiKu Ltd Coaching Agency

19th February

Job Search Mastery During the Pandemic and Beyond by James Mowat

8th April

CIBSE UAE Annual Awards 2021

7th July

Dehumidification & Drying Psychrometrics by Julien Taschot, in collaboration with Condair Middle East.



Upcoming Events for your Diary

SoPHE: Designing drainage without compromise - DIN EN 12056

SoPHE UAE and Geberit Gulf regional office invite you to their upcoming webinar, 'Designing drainage without compromise - DIN EN 12056' with Vineet Kumar Bhaskar of Geberit at 17:00 (GMT +4).

In this 60 minute webinar our speaker, Vineet Kumar Bhaskar will provide delegates with an expert level learning opportunity and provide insight on the Inhouse drainage optimal design system with following topics :-

- Elements & requirements of drainage system.
- Optimal filling ratio & traps for fixtures.
- Negative & over pressure.
- Pipe layout & dimensioning.
- Materials & applications
- Geberit SuperTube system

The presentation is followed by a live question and answer session.

When - 30th of September from 5 PM (GMT+4).

Where - MS Teams

Register here: <https://lnkd.in/dUZxkTFE>



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: <https://twitter.com/UaeCibse>

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