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COLLEGE OF ENGINEERING

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A REPORT ON WEBINAR

TITLE AND DURATION: An International Webinar on “Ventilation, IAQ and Energy Issues in Hot-Humid Climates – Past, Present and Future” June 16, 2020

SPONSORS & SUPPORTERS: ASHRAE Rajasthan Chapter (Under MoU with Kamal Cogent Energy, Jaipur)

ORGANIZER(S): Department of Mechanical Engg, Poornima College of Engineering, Jaipur.

EXPECTED OUTCOMES:

- Student will be able to enhance the knowledge of Refrigeration and Energy Industry.
- Student will be able to recognize the different scopes of Mechanical Engg in Energy field.
- Student will be able to analyze their future perspective in the field of Energy Issues.

MAPPINGS WITH PO & PSO:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	3	-	-	-	-	-	-	2	3	2
CO2	-	-	-	-	-	-	-	-	3	-	-	-	2	3	2
CO3	-	-	-	-	-	-	-	-	-	-	-	3	2	3	2


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FLYER / POSTER:

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 **ASHRAE**®
Rajasthan Chapter



Dr. Chandra Sekhar
Prof, Department of Building,
School of Design and Environment,
National University of Singapore

A Webinar on
**Ventilation, IAQ and Energy Issues
in Hot-Humid Climates – Past,
Present and Future**

Organized by
Department of Mechanical Engineering

 **TUESDAY, JUNE 16, 2020**

 **TIME 11:00 AM - 12:00 PM**

Session Through :  **GoToWebinar**

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BRIEF BIODATA OF RESOURCE PERSON:

Chandra Sekhar, Ph.D.

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National University of Singapore
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Dr. Chandra Sekhar is currently a Professor and Programme Director (M.Sc – Building Performance and Sustainability) and Co-Director (Centre for Integrated Building Energy and Sustainability in the Tropics) in the Department of Building at the National University of Singapore (NUS). He is also a Founding Director of Enhanced Air Quality Pte Ltd., a NUS Spin-off Company incorporated in June 2004, arising out of his research in the fields of indoor air quality (IAQ) and Energy. He has been an IAQ consultant in Singapore since 1993. He holds BE (Mechanical Engineering) from the University of Rajasthan (Malaviya National Institute of Technology), India and PhD (Mechanical Engineering) from the University of Adelaide, Australia, in the area of energy efficient cooling and dehumidification systems. In 1992, he joined NUS as a


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faculty and has since been teaching and conducting research in the areas of thermal comfort, ventilation and indoor air quality, energy efficient HVAC systems, building energy analysis/management and integrated building design/operation and has published about 250 papers in these areas in several international journals and conferences.

Prof. Sekhar is an Associate Editor of ASHRAE Science and Technology for the Built Environment (STBE) [formerly HVAC&R Research] journal, Regional Editor (South East Asia) Indoor and Built Environment and an editorial board member of Energy and Buildings, Building and Environment, International Journal of Ventilation and International Journal of Sustainable Built Environment. He is a regular reviewer of articles for several international journals, such as, ASHRAE STBE and Transactions; Indoor Air; Energy and Buildings; Building and Environment; Energy; International Journal of Ventilation & Indoor and Built Environment. He is a co-inventor and holds 3 US and other patents in the area of energy efficient air-conditioning system with zonal ventilation control for enhanced indoor air quality. He is a member of the International Scientific Committee of the Healthy Buildings, Indoor Air, ROOMVENT, CLIMA and IAQVEC series of conferences. He was the Chair of the Steering Committee for ASHRAE IAQ2010 conference in Kuala Lumpur in 2010 and continues to be on the steering committee of subsequent ASHRAE IAQ conferences (Vancouver, 2013 and Alexandria, USA, 2016).

Prof Sekhar is a Fellow of ASHRAE and the International Society for Indoor Air Quality and Climate (ISIAQ). He is a co-recipient of The Enterprise Challenge award of the Prime Minister's Office, Singapore in 2004 and ASEAN Energy Award in 2011. He is also a member of the Institution of Engineers, Australia (CPEng, IEAust). He is a past Chair of the Environmental Health Committee (EHC, 2012-2013) and was a member of the IEQ-Global Alliance Ad Hoc Committee (2013-2017), EHC (2006-2012 & 2016-2018). He has also served the ASHRAE Singapore Chapter in various capacities, including as its President during 2010-2011 and as a BOG member.

ABSTRACT OF THE SESSION:

"Ventilation, IAQ and Energy Issues in Hot-Humid Climates – Past, Present and Future".

This talk will provide an overview of the ventilation, IAQ and energy issues in commercial office buildings in hot humid climates. It presents the design challenges based on climatic differences with due consideration given to local codes and ASHRAE Standards 55, 62.1 and 90.1. Typical HVAC design for different building types in hot humid climates will be covered with emphasis on both design and part load characteristics. The role and importance of cooling and dehumidifying coil and limitations in conventional designs will be highlighted. Effective and practical zone level ventilation control will be introduced and the notion of energy efficient healthy buildings will be discussed.

presented.

Department of Mechanical Engineering, PCE organized an International webinar presentation on topic “Ventilation, IAQ and Energy Issues in Hot-Humid Climates – Past, Present and Future” on June 16, 2020, at 11:00 AM in association with ASHRAE Rajasthan Chapter. It was delivered by Dr. Chandra Sekhar. He is currently a Professor and Programme Director (M.Sc – Building Performance and Sustainability) and Co-Director (Centre for Integrated Building Energy and Sustainability in the Tropics) in the Department of Building at the National University of Singapore (NUS)

Mr. Shailendra Kasera welcomed the guest and all the participants. He introduced the guest and spoke about the webinar. Thereafter, Dr. Chandra Sekhar explained that, Why are air-conditioned buildings in hot and humid climates so cold that one gets reminded of carrying a jacket when going to office? Would raising the set point temperatures in these buildings do the trick? What are the engineering challenges that necessitate a relook at the way air-conditioned buildings in such climates are designed? This talk will review some of the fundamental issues of cooling and dehumidification facing the HVAC designer and the inevitable and inherent design of an oversized system and its undesirable consequences in terms of an overcooled indoor environment. It will provide an understanding of the psychometric challenges involved in cooling and dehumidification at peak and part loads in hot and humid climates. Possible solutions to creating a more thermally comfortable and healthy indoor environment that can also save energy will be discussed.

This talk covered the key features of a comprehensive indoor air quality (IAQ) and energy study conducted in commercial office buildings in a hot humid climate in the mid-to-late nineties and will compare the findings with similar large-scale studies conducted in Europe and USA. An integrated IAQ and energy audit methodology was adopted and the key performance parameters measured include various indoor pollutant concentration levels, ventilation characteristics (such as outdoor air change rate, ventilation efficiency and air exchange effectiveness), energy index and subjective responses (Building Symptom Index, Thermal comfort acceptability, IAQ acceptability).

The session ended with the vote of thanks by Dr Narayan Lal Jain, Professor & Head, Department of Mechanical Engineering, PCE. 287 participants benefited by the expertise of Dr. Chandra Sekhar.



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GLIMPSES:

ASHRAE DL Webinar

ASHRAE Rajasthan Chapter
Jaipur
16 June 2020

Ventilation, IAQ and Energy issues in hot humid climates – Past, Present and Future

Professor Chandra Sekhar, PhD
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National University of Singapore, Singapore

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Audio

Sound Check

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Phone call
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Speakers (High Definition Audio Devi...)

Talking:

Questions

This talk will provide an overview of the ventilation, IAQ and energy issues in commercial office buildings in hot humid climates. It presents the design challenges based on climatic differences with due consideration given to local codes and ASHRAE Standards 55, 62.1 and 90.1.

[Enter a question for staff]

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Ventilation, IAQ and Energy Issues in Hot...
Webinar ID: 209-992-595

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Learning Objectives

1. Understand the importance of an integrated IAQ-Energy concept
2. Understand the impact of ventilation and IAQ on occupant productivity and health
3. Describe the key features of Thermal Comfort and Ventilation Standards (a) ASHRAE Standards 55 & 62.1 and (b) Singapore Standards
4. Describe the Singapore Green Mark Scheme for rating buildings for environmental sustainability
5. Understand the notion of Smart, Sustainable and Healthy Built Environments

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Speakers (High Definition Audio Devi...)

Talking: Dr. Chandra Sekhar

Questions

This talk will provide an overview of the ventilation, IAQ and energy issues in commercial office buildings in hot humid climates. It presents the design challenges based on climatic differences with due consideration given to local codes and ASHRAE Standards 55, 62.1 and 90.1.

[Enter a question for staff]

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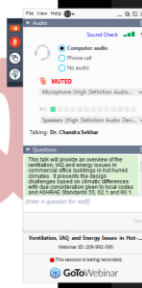
This session is being recorded.

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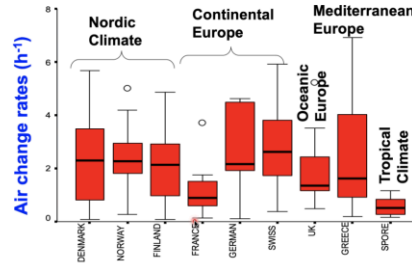
Mendell, M.J., W.J. Fisk, K. Kreiss, H. Levin, D. Alexander, W.S. Cain, J.R. Girman, C.J. Hines, P.A. Jensen, D.K. Milton, L.P. Rexroat and K.M. Wallingford, 2002. Improving the health of workers in indoor environments: Priority research needs for a national occupational research agenda. *American Journal of Public Health*, Vol 92, No.9, 1430 -1440.

Why IAQ

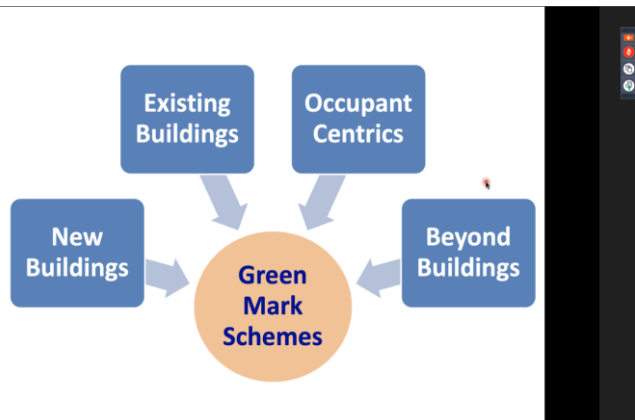
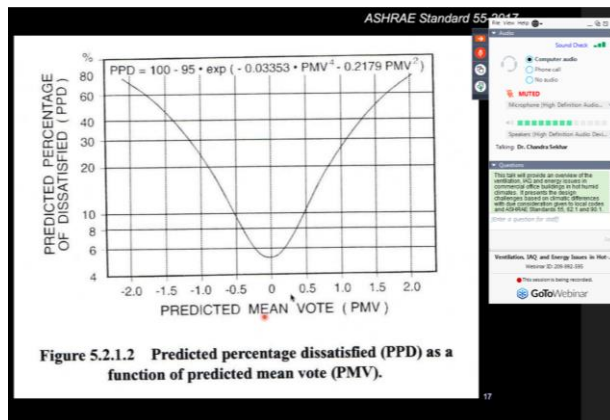
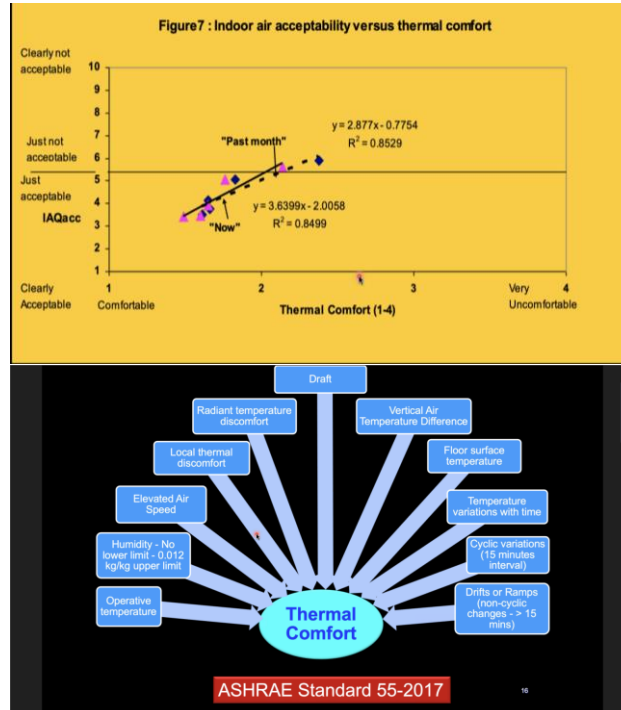
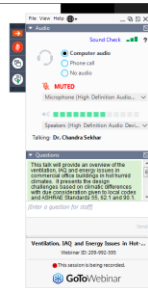
..... Improving building environments may result in health benefits for more than 15 million of the 89 million US indoor workers, with estimated economic benefits of \$5 to \$75 billion annually.



Zuraimi MS, Roulet C-A, Tham KW, Sekhar SC, David Cheong KW, Wong NH & Lee HK. 2004. "A comparative study of VOCs in Singapore and European Office Buildings", *Building and Environment*, Volume 41, Issue 3, March 2006, Pages 316-329



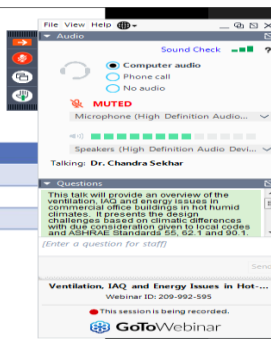
Air change rates (ACH) measured in the European and Singapore buildings studied



BCA Green Mark Award Rating Scores

Green Mark Rating	Green Mark Score
Green Mark Platinum	70 and above
Green Mark Gold ^{PLUS}	60 to < 70
Green Mark Gold	> 50 to < 60

https://www.bca.gov.sg/GreenMark/others/Green_Mark_NRB_2015_Criteria.pdf



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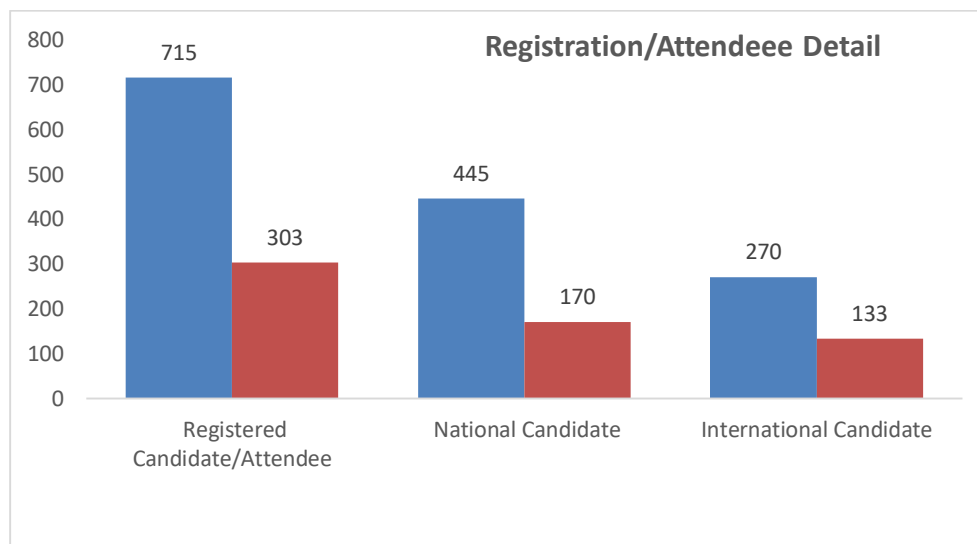
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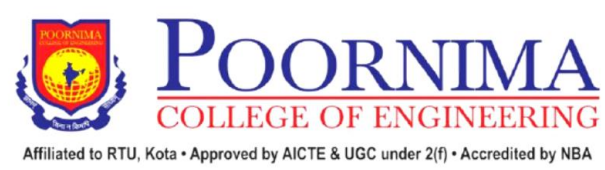
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114	2018pcemeprabhakar48@poornima.org	Thakur Prabhakar	Yes	Yes	4
115	uarul.kumar55@gmail.com	U Arulkumar	Yes	Yes	5
116	junaiddudin75@gmail.com	Uddin Junaid	Yes	Yes	5
117	chmumair64@gmail.com	Umair Engr. Muhammad	Yes	Yes	4
118	kalpana.verma2311@gmail.com	Verma Kalpana	Yes	Yes	5
119	awahome@buildingservices-group.com	Wahome Andrew	Yes	No	3
120	barry@rpmgroup.co.za	Wallett Barry	Yes	Yes	5
121	warisata158@gmail.com	Waris Ata	May be	Yes	4
122	jatiwidiputra@ymail.com	Widiputra Jati	Yes	Yes	5
123	twiryawan@eresapm.com	Wiryawan Tommy	Yes	Yes	4
124	arslanyounas88@hotmail.com	Younas Arslan	Yes	Yes	4
125	eng_tarekyacout@yahoo.com	Yacout Abdelaal Tarek	Yes	Yes	5
126	eng.mech3367@gmail.com	Zein-El-Din Tarek	Yes	Yes	5
127	uttam58@yahoo.com	Chattopadhyay Uttamkumar	Yes	Yes	5
128	arayil.dinesh@smartae.ae	Dinesh Arayil	Yes	Yes	5
129	leogar60@yahoo.com	Garcia Leoncio Jr	Yes	Yes	3
130	h.hamoudeh@ihpco.net	Hamoudeh Hamzeh	Yes	Yes	4
131	promice111@gmail.com	Htet Sannay	Yes	Yes	5
132	2017civomendra5798@poornima.edu.in	Jakhar Omendra	Yes	Yes	4
133	nkumaresh@gmail.com	Kumaresan Natarajan	Yes	Yes	5
134	ibrahim_hj@hotmail.com	Saleh Ibrahim Ibrahim	Yes	Yes	5
135	2017pcemepiyush072@poornima.org	Sharma Piyush	Yes	Yes	4
136	2019pcecstarun182@poornima.org	Upadhayay Tarun	Yes	Yes	4

137	aymanyoussef64@gmail.com	Youssef Ayman	Yes	Yes	5
138	birikim2015@gmail.com	Yilmaz Levent	Yes	Yes	4

FEEDBACK ANALYSIS:

Sr.no.	Attributes	Total Feed Back	Total Feed Back- 280 >80% Objective Achieved, 60 to 79 %- Satisfactory, Below 60%, Need improvement					Remark
			Yes	No	Maybe	---	---	
1	Do you think webinar was useful for you?	138						
			135	1	2	---	---	Objective Achieved (97.83%)
			97.83	0.72	1.45	---	---	
2	Did you receive all the information you expected at the webinar?	138	Yes	No	NA	---	---	Objective Achieved (92.75%)
			128	19	---	---	---	
			92.75	13.77	---	---	---	
3	How would you rate the webinar?	138	1	2	3	4	5	Rating 4 & 5 Combindly Achieved the objective (92.03%)
			0	1	10	55	72	
			0.00	0.72	7.25	39.86	52.17	

CERTIFICATE:

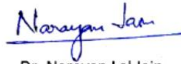


Certificate of Participation

This is to certify that Sanjay Kumawat
from Poornima College of Engineering, Jaipur
has attended International Webinar on “Ventilation, IAQ and Energy Issues in Hot-Humid Climates – Past Present & Future” organized by Department of Mechanical Engineering, Poornima College of Engineering in Association with ASHRAE RAJASTHAN CHAPTER on June 16, 2020.



Ms. Asha Kumawat
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Director



For verification mail to registrar.pce@Poornima.org
Certificate ID: PCMEWK3MO62020-ACT05-001


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