



POORNIMA

COLLEGE OF ENGINEERING

Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

Poornima College of Engineering, Jaipur

Activities Organized under the MoU with Kamal Cogent Energy, Jaipur

S .N.	Society	Date	Type	Name of Activity	Page No.
1	ISHRAE	June 16, 2020	Webinar	“Ventilation, IAQ & Energy Issues in Hot-Humid Climates – Past, Present and Future”	2-18
2	ISHRAE	June 9, 2020	Webinar	“Everyone Communicates, Few Connect”	19-32
3	ISHRAE	Jan 16, 2020	Expert Lecture	Advancements in Pumps and Pumping Technology	33-40
4	ISHRAE	Dec 10, 2019	Expert Lecture	Basics of Air Change Rates (ACH): Facts versus Fiction	41-49
5	ISHRAE	Oct 9, 2019	Workshop	One Day Workshop on BIM for HVAC	50-59


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
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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 Engineering, 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 Engineering in Energy field.
- Student will be able to analyse 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

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**

RSVP
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BRIEF BIODATA OF RESOURCE PERSON:

Chandra Sekhar, Ph.D.

Professor

National University of Singapore
Department of Building

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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 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 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 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.

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
Fellow ASHRAE, ISIAQ
Department of Building,
School of Design and Environment
National University of Singapore, Singapore

File View Help

Audio

Sound Check

Computer audio

Phone call

No audio

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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]

Send

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

GoToWebinar

Learning Objectives

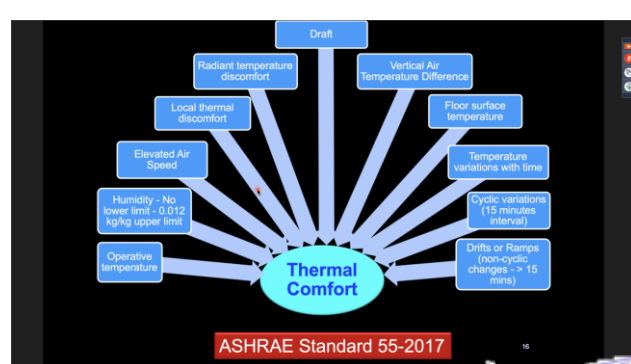
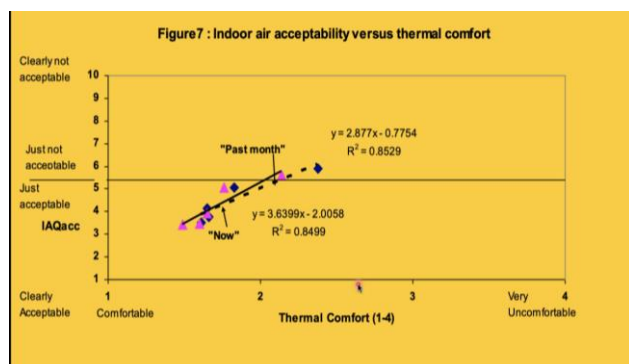
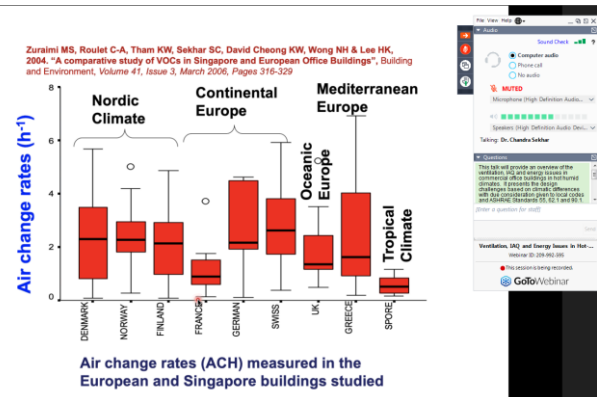
1. Understand the importance of an integrated IAQ-Energy concept
2. Understand the impact of ventilation and IAQ on occupant productivity and health
3. Describe the key features of Thermal Comfort and Ventilation Standards (a) ASHRAE Standards 55 & 62.1 and (b) Singapore Standards
4. Describe the Singapore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

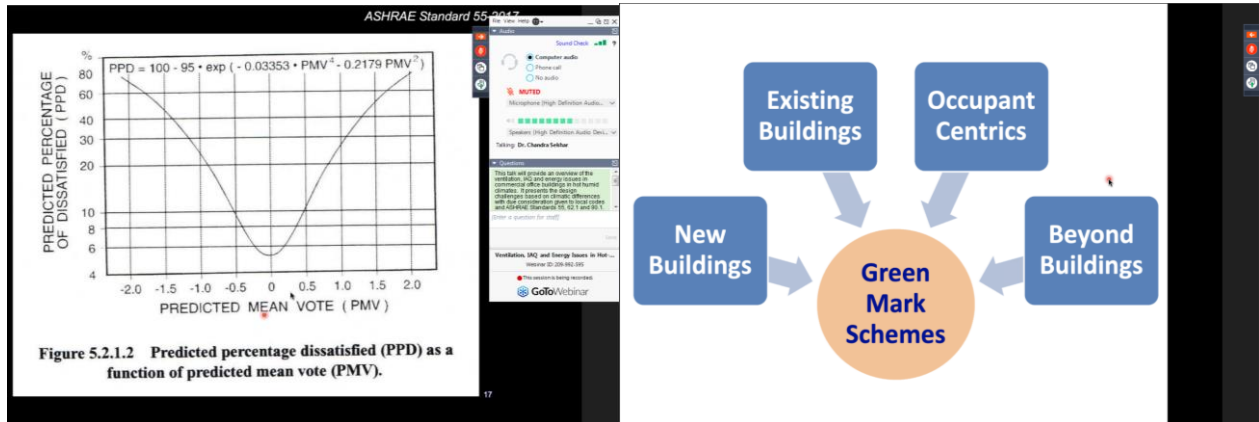


Mendell, M.J., W.J. Fisk, K. Kreiss, H. Levin, D. Alexander, W.S. Cain, J.R. Girman, C.J. Hines, P.A. Jensen, D.K. Milton, L.P. Rexroat and K.M. Wallingford, 2002. Improving the health of workers in indoor environments: Priority research needs for a national occupational research agenda. *American Journal 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.





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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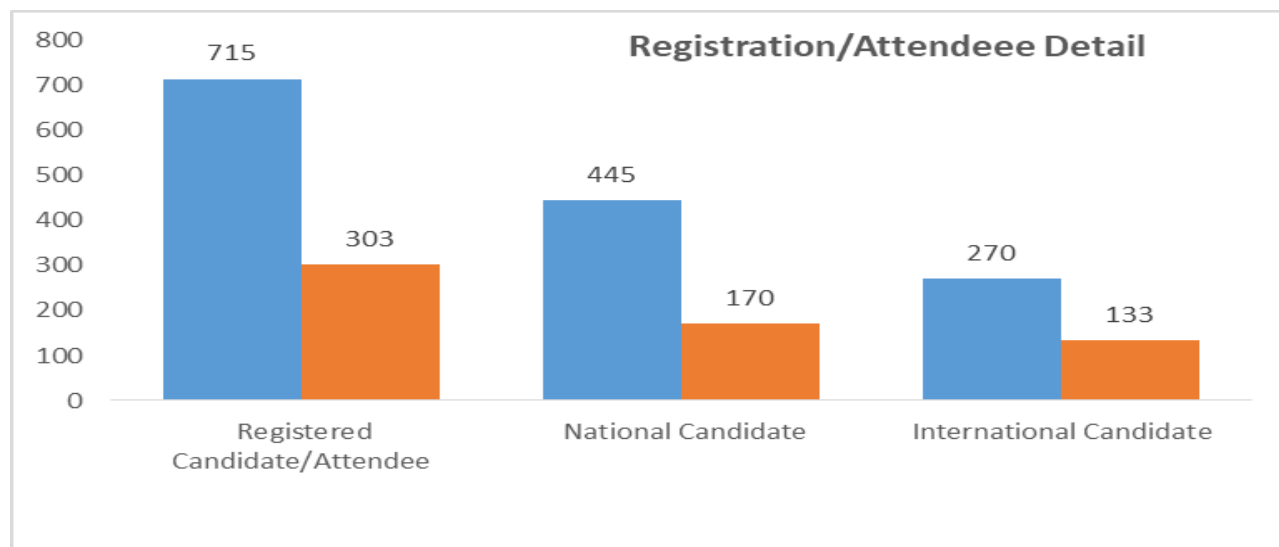
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Feedback Analysis

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



For verification mail to registrar.pce@Poornima.org
Certificate ID: PCEMEWK3MO62020-ACT05-001




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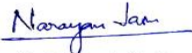
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Certificate of Participation


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
Coordinator



Dr. Narayan Lal Jain
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A REPORT ON WEBINAR

TITLE AND DURATION: An International Webinar on “Everyone Communicates, Few Connect” Tuesday; June 9, 2020

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

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

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

FLYER / POSTER:



The flyer is for a 'Virtual DL Presentation' organized by the Department of Mechanical Engineering at Poornima College of Engineering. The speaker is Karine Leblanc, an ASHRAE Distinguished Lecturer. The event is titled 'EVERYONE COMMUNICATES, FEW CONNECT' and is scheduled for Tuesday, June 9, 2020, from 06:30 PM to 07:30 PM. The session will be held through Zoom. The flyer includes the Poornima College of Engineering logo, the ASHRAE Rajasthan Chapter logo, and a photo of Karine Leblanc speaking at a podium.

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ASHRAE Rajasthan Chapter

Virtual DL Presentation

Organized by
Department of Mechanical Engineering

SPEAKER

Karine Leblanc
ASHRAE Distinguished Lecturer

EVERYONE COMMUNICATES, FEW CONNECT

TUESDAY, JUNE 9, 2020

TIME 06:30 PM - 07:30 PM

Session Through : **zoom**

RSVP
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BRIEF BIODATA OF RESOURCE PERSON:

Ms. Karine Leblanc

ASHRAE Distinguished Lecturer



Ms. Karine Leblanc received her Bachelor degree in Mechanical Engineering from Ecole de Technologie Superieure, an engineering school in Montreal, Quebec, Canada, which is part of the University of Quebec. She was awarded an honorary medal as part of the 50th anniversary of the University of Quebec for her exceptional contribution to the institution. Ms. Karine has been working as an HVAC sales engineer for US Air Conditioning Distributors since 2001 and has been an active member of ASHRAE since she was a student. Ms. Karine has served on the ASHRAE Society Board of Directors from 2014-2017 and became the first female Region X

Director Regional Chair since 1959. In 2009-2010, she was, at that time, the youngest and 2nd female President of the chapter of Southern California which was founded in 1930. She has received the Louise & Bill Holladay Southern California chapter Distinguished service award, the Region X Director's Cup award, the Regional Award of Merit and the Disting.

ABSTRACT OF THE SESSION:

"Only one thing stands between you and success. It isn't experience. It isn't talent." ~ John Maxwell

World- renowned leadership experts John C. Maxwell says if you want to succeed. You must learn how to connect with people. And while it may seem like some folks are just born with it. The fact is anyone can learn how to make every communication an opportunity for a powerful connection. In Everyone Communicates, Few Connects, I will share the five principal and five practices to develop the crucial skill of connecting, including:

- Finding Common Ground
- Keeping your Communication Simple
- Capturing People's Interest
- Inspiring People
- Staying Authentic in all Your Relationships

The ability to connect with others is a major determining factor in reaching you full potential. It's no secret! Connecting is a skill you can learn and apply in your personnel, professional, and family relationships.

Department of Mechanical Engineering, PCE organized a webinar presentation on topic "Everyone Communicates, Few Connect" on June 9, 2020, at 06:30 PM in association with ASHRAE Rajasthan Chapter. It was delivered by Ms. Karine Leblanc, ASHRAE Distinguished Lecturer. The main objective of this webinar is to get students and faculty members acquainted with the concept of "Everyone Communicates, Few Connect". Ms. Karine Leblanc, discuss the five principles and five practices to develop the crucial skill of connecting peoples. She elaborates that by the concept of connecting principles, can achieve the more success in personnel and professional life. Ms. Karine Leblanc, explained the criteria for advancement & promotion for professional because it is the ability to communicate effectively. Mr. Shailendra Kasera welcomed the guest and all the participants. He introduced the guest and spoke about the webinar. Thereafter, Ms. Karine Leblanc, clarify the concept of connecting goes beyond words with the help of connecting principles. She simplify that connecting is the ability to identify with people and relate them in a way that increase your influence with them. The session ended with the vote of thanks by Dr Narayan Lal Jain, Professor & Head, Department of Mechanical Engineering, PCE. 204 participants benefited with the expertise of Ms. Karine Leblanc.

GLIMPSES:



POORNIMA
COLLEGE OF ENGINEERING

ASHRAE Rajasthan Chapter

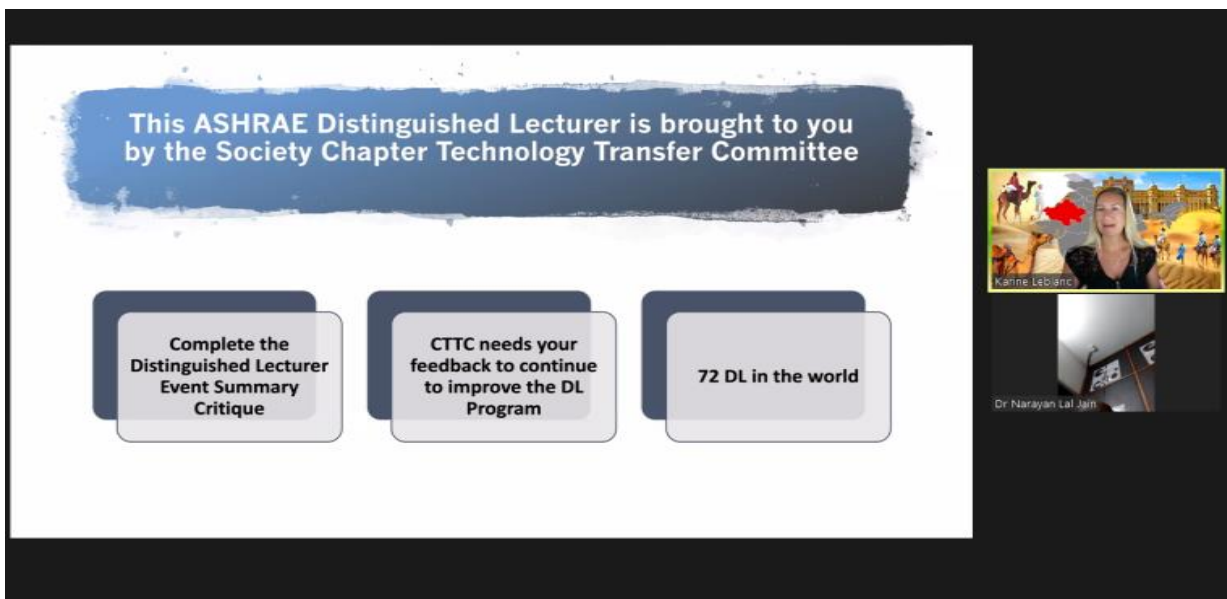
Welcome You

Virtual DL Presentation on

Everyone Communicates, Few Connect

Karine Leblanc
ASHRAE Distinguished Lecturer

Shilendra Kasera

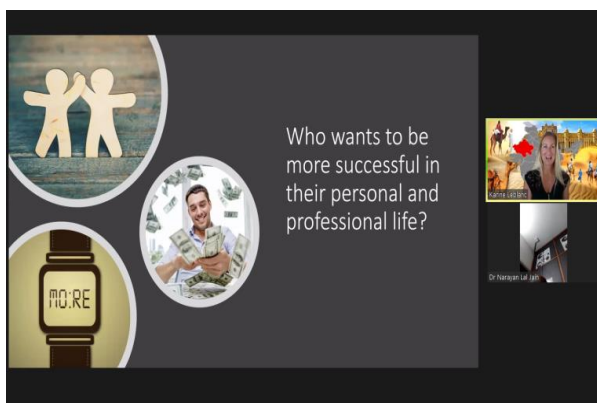


This ASHRAE Distinguished Lecturer is brought to you by the Society Chapter Technology Transfer Committee

- Complete the Distinguished Lecturer Event Summary Critique
- CTTC needs your feedback to continue to improve the DL Program
- 72 DL in the world

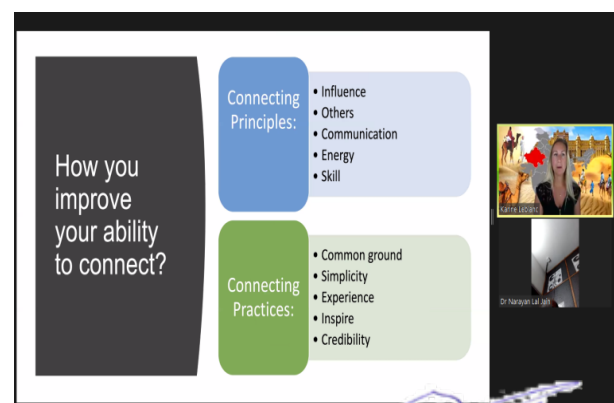
Karine Leblanc

Dr. Narayan Lal Jain



Who wants to be more successful in their personal and professional life?

Dr. Narayan Lal Jain



How you improve your ability to connect?

Connecting Principles:

- Influence
- Others
- Communication
- Energy
- Skill

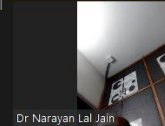
Connecting Practices:

- Common ground
- Simplicity
- Experience
- Inspire
- Credibility

Dr. Narayan Lal Jain

#1 Connecting Principles: Influence

- We speak 6000 words a day
- How to make your words count?



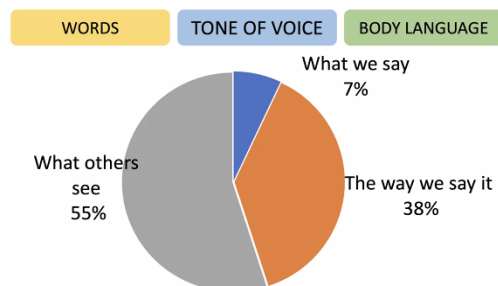
CONNECTING IS...
The ability to identify with people and relate to them in a way that increases your influence with them.

—JOHN C. MAXWELL

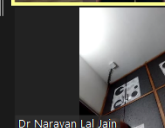


Connecting Principles #3 COMMUNICATION

Connecting goes beyond words



>90% of the impression that we give has nothing to do with what we actually say!



How to communicate better

- **Action** – connecting visually
- **Thought** – connecting intellectually
- **Emotion** – connecting emotionally
People may hear your words but they feel your attitude



It's not what you say, it's how you say it!



Connecting Principles #4 ENERGY

Principle #4 – Connecting always requires ENERGY

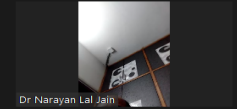
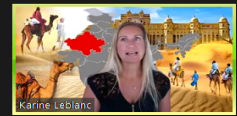
Connecting requires:

1. Initiative – 10ft rule
2. Patience – slow down
3. Selflessness – give your all
4. Stamina – #1 fear



Connecting Principles #5

Connecting is more SKILL than natural talent



There may be no single thing more important in our efforts to achieve meaningful work and fulfilling relationships than to learn to **practice** the art of communication.

—MAX DE PREE



People buy into the leader
before they buy into the
vision.

John C. Maxwell

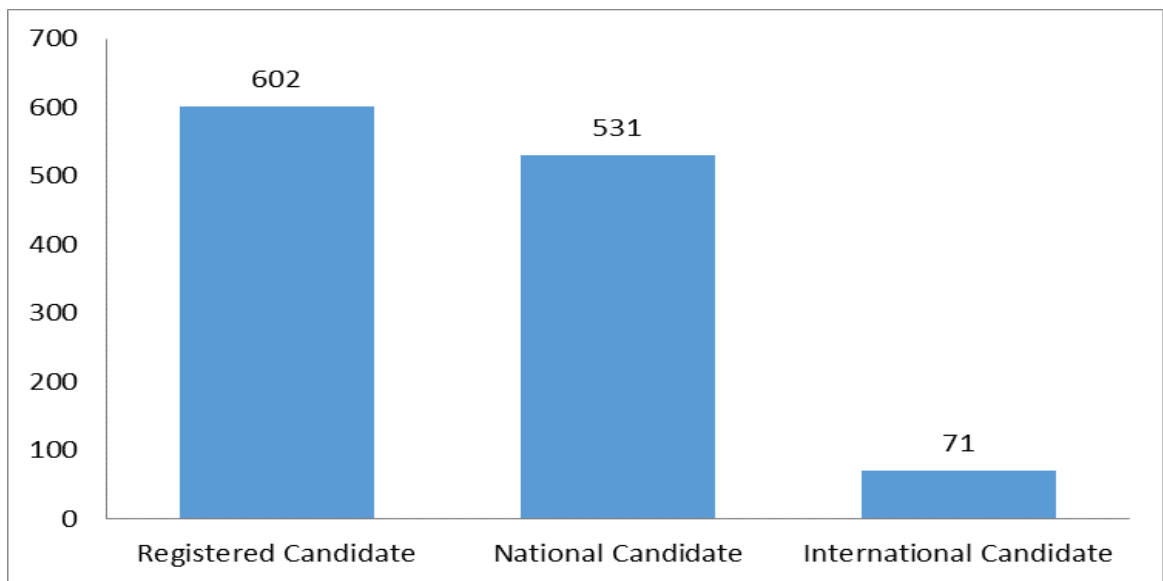
BrainyQuote



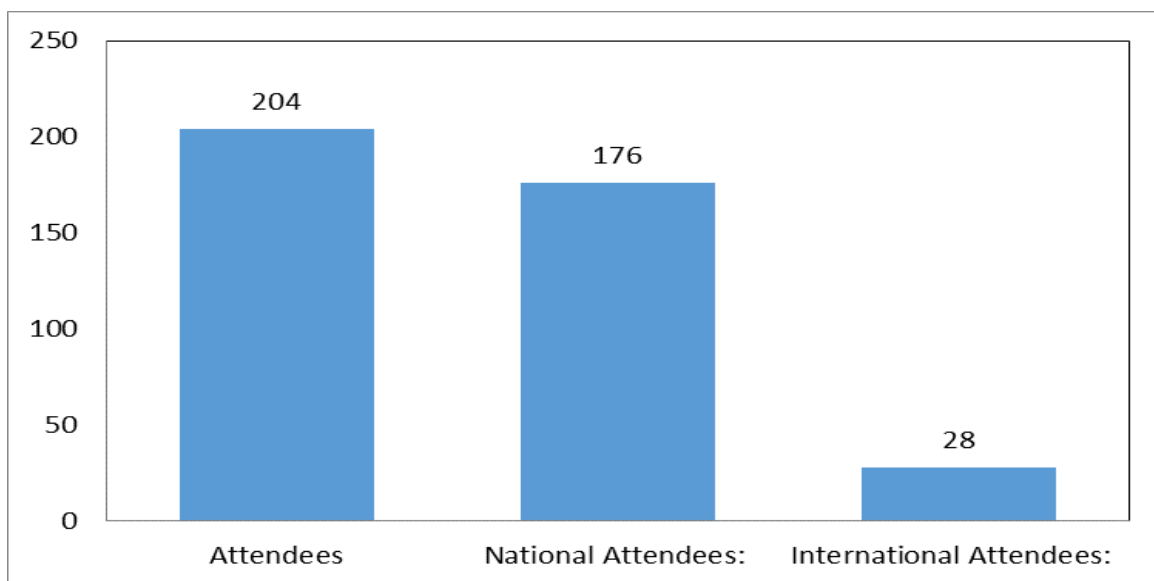


Participation Detail

- Registered Candidate : 602
- National Candidate : 531
- International Candidate : 71



- Attendees : 204
- National Attendees : 176
- International Attendees : 28



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Certificate





POORNIMA

COLLEGE OF ENGINEERING

Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

A REPORT ON EXPERT TALK

TITLE AND DURATION: An Industry Expert Lecture on “Advancements in Pumps and Pumping Technology” on Jan 16, 2020

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

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

EXPECTED OUTCOMES:


Activity-1.1	Student will be able to enhance the knowledge of Pumping Industry.
Activity-1.2	Student will be able to recognize the different scopes of Mechanical Engineering in Pumping Industry.
Activity-1.3	Student will be able to analyse their future perspective in the field of Pumping Industry.


MAPPINGS WITH PO & PSO:


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

FLYER / POSTER:

INDUSTRY EXPERT LECTURE SERIES
January 16, 2020



**POORNIMA**
COLLEGE OF ENGINEERING
Department of Mechanical Engineering

**ASHRAE**
Rajasthan Chapter



Topic
**Advancement in
Pumps and Pumping
Systems**

RSVP
Mr. Shailendra Kasera
Mob. : 9983144773
shailendrakasera@poornima.org

Supported by :


Time: 10:00 AM onwards • Venue: Seminar Hall, Poornima College of Engineering, Jaipur

ABOUT THE COMPANY (XYLEM INC.)

Xylem is a leading water technology company committed to "solving water" by creating innovative and smart technology solutions to meet the world's water, wastewater and energy needs. In a world of ever-growing challenges, Xylem delivers innovative water technology solutions throughout the cycle of water.

Their technological strength across the life cycle of water is second-to-none. From collection and distribution to reuse and return to nature, our highly efficient water technologies, industrial pumps and application solutions not only use less energy and reduce life-cycle costs, but also promote sustainability.

Xylem Inc. values Indian market greatly and attaches high importance to its development and growth in India. Xylem Water Solutions India Private Limited was established in 2011 from the spin-off water related business of ITT Corporation India Pvt. Ltd. At present, Xylem India has its Technology Centre and manufacturing facility in Baroda and sales offices in Bangalore, Delhi, Mumbai, and Pune. The total number of employees in India exceeds 200.

Xylem brings advanced management system and superior work culture to India with Integrated Management System Certifications for ISO 14001:2004 and OHSAS 18001:2007. It uses VBLSS to increase the efficiency of its enterprises. Xylem has attached great importance to the training and development of local employees in order to fully utilize the talent of local employees. It strictly follows business ethics and code of conduct.

Xylem Water Solutions India facility located in Vadodara, is IGBC-LEED Gold rated and caters to India and neighbouring countries by offering solutions for Water and Wastewater transport, treatment and testing to Power, Irrigation, Commercial Building Services and Municipal sectors.

Xylem India has built one of its world's largest pump testing facility of 7.5 MW and 80,000 m³/hr capacity in Vadodara. The facility is capable to test vertical turbine pumps, horizontal split case pumps and dry pit sewage pumps. Here the pumps are tested for performance, submergence and reliability.

ABOUT THE SESSION

Department of Mechanical Engineering, **Poornima College of Engineering (PCE), Jaipur** organized an Industry Expert Lecture on Advancements in Pumps and Pumping Technology on Thursday i.e. Jan 16, 2020 in association with Xylem Inc. It is supported by MEPa2z LLP and ASHRAE Rajasthan Chapter.

The occasion witnessed the presence of **Mr. Rahul Chafekar, CFD Engineer, Xylem Inc, Vadodara, Mr. Atul Singh, Design Engineer, Xylem Inc, Vadodara and Mr. Ankit Gupta, Assistant Manage- AWS Rajasthan.** 75 students of PCE along with the faculty members attended the Lectures.

Mr. Rahul Chafekar delivered the talk on Fundamentals of Pumps and Pumping Technology. He explained the basic concepts with help of practical examples. Mr Atul Singh talked about the Energy Efficiency in the Pump. He focuses upon the Variable Frequency Drive (VFD).

Glimpses









Industry Expert Lecture on Advancements in Pumps and Pumping Systems

Jan 16, 2020

Q-Sheet

Venue: Seminar Hall, PCE

Time: 12:15 PM to 3:00 PM

S. No.	Program	Timings
1.	Arrival of Guests at Seminar Hall, PCE	12:15 PM
2.	Welcome of Dignitaries and Memento presentation Felicitation of Mr. Atul Singh , Asst Manager-Design, Xylem By Dr. Mahesh Bundeale , Director, PCE Felicitation of Mr. Rahul Chapekar , Lead Engineer, Xylem By Dr. Yogesh, Singh , HOD, ME, PCE Felicitation of Mr. Ankit Gupta , Asst Manager-Sales, Xylem By Mr. Shailendra Kasera , Asst Prof, ME, PCE	12:15 PM to 12:20 PM
3.	Welcome address by Dr. Mahesh Bundeale, Director, PCE	12:20 PM to 12:25 PM
4.	Lecture on “ Fundamentals of Pumps and Pumping Technology ” by Mr. Atul Singh , Asst Manager-Design, Xylem	12:25 PM to 1:40 PM
5.	Lecture on “ Energy Conservation in Pumps ” by Mr. Rahul Chapekar , Engineer, Xylem	1:40 PM to 2:55 PM
6.	Vote of Thanks by Anchor	2:55 PM

List of Students

S. No	Registration No.	Sem.	Section	Name of Student
1	PCE16ME116	VIII	B	VIJENDRA SINGH
2	PCE16ME067	VIII	B	NITIN KHANDELWAL
3	PCE16ME100	VIII	B	SHIVAM AGARWAL
4	PCE16ME082	VIII	B	RAHUL MEENA
5	PCE16ME101	VIII	B	SHIVMANI KUMAR
6	PCE16ME091	VIII	B	SAHIL KHAN
7	PCE16ME109	VIII	B	TALVINDRA KUMAR
8	PCE16ME072	VIII	B	PRAKASH SUTHAR
9	PCE16ME126	VIII	B	YOGESH SAHU
10	PCE16ME087	VIII	B	RAVI RANJAN
11	PCE18ME708	VI	A	RAHUL KUMAR
12	PCE18ME705	VI	A	SAJID GOURI
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21	PCE17ME095	VI	B	TAPAN NYATI
22	PCE17ME045	VI	A	HARSHITA BHATIA
23	PCE18ME703	VI	A	MANISH SINGH CHOUHAN
24	PCE18ME706	VI	A	SHYAM WASI
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88	PGI17ME019	VI	A	HIMMAT SINGH



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A REPORT ON EXPERT TALK

TITLE AND DURATION: An Industry Expert Lecture on “Basics of Air Change Rates (ACH): Facts versus Fiction” on Dec 10, 2019

SPONSORS & SUPPORTERS: ASHARE Jaipur Section (Under MoU with Kamal Cogent Energy, Jaipur)

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


EXPECTED OUTCOMES:


Activity-1.1	Student will be able to enhance the knowledge of Physics based simulations and CF analysis.
Activity-1.2	Student will be able to recognize the different scopes of Mechanical Engineering in HVAC Industry.
Activity-1.3	Student will be able to analyse their future perspective in the field of external wind engineering, dispersion, smoke exhaust, displacement ventilation.

MAPPINGS WITH PO & PSO:

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


FLYER / POSTER:

**POORNIMA**
GROUP OF COLLEGES

**ASHRAE**
Jaipur Section

**ASHRAE Distinguished
Lecturer Program**
The Truth About Air
Change Rates

A Session By
Dr. Kishor Khankari
President, AnSight LLC



Date: Dec 10, 2019
Time: 10:00 AM

RSVP:
Mr. Shailendra Kasera
Mob. : 9983144773

Venue: Seminar Hall, PCE

About the Speaker

Dr. Kishor Khankari, President, AnSight, Ann Arbor, MI, USA



Dr. Kishor Khankari, Ph.D. is President at AnSight LLC in Ann Arbor, MI. He provides engineering solutions and insights through Physics based simulations and CFD analysis. Kishor has several years of experience in providing optimized HVAC solutions to a wide variety of applications involving external wind engineering, plume dispersion, smoke exhaust, displacement ventilation, natural ventilation, radiant heating and cooling, and indoor air quality and thermal comfort optimization for office spaces, patient rooms, operating rooms, cleanrooms, justice facilities, data centers, and warehouses. Dr. Khankari has developed a patented technology of a wind band design of exhaust fan assembly systems. He has developed several easy-to-use analytical software tools which are regularly used by design engineers in a variety of companies including those in HVAC industry, critical facilities, and automotive industries.

A noted expert in his field, he has a Ph.D. from the University of Minnesota and has been regularly published in several technical journals and trade magazines. Dr. Khankari has delivered close to 100 DL presentations worldwide on topics related to design and optimization of HVAC systems and made several presentation at various technical conferences. Dr. Kishor Khankari is a Fellow member of ASHRAE. He is a recipient of ASHRAE Exceptional and Distinguished Service Awards. He is the past President of Detroit ASHRAE Chapter, past Chair of ASHRAE Technical Committee TC9.11 Clean Spaces, and past Chair of Research Administration Committee (RAC). He is the member of ASHRAE Environmental Health Committee and currently leading a new Multi Task Group (MTG) on Air Change Rates.

ABOUT THE SESSION

Department of Mechanical Engineering, **Poornima College of Engineering (PCE), Jaipur and ASHRAE Jaipur Section** organized a Distinguished Lecture on Basics of Air Change Rates (ACH): Facts versus Fiction on Tuesday i.e. Dec 10, 2019.

The occasion witnessed the presence of **Dr. Kishor Khankari, President, AnSight LLC, Ann Arbor, USA, Dr. Mahesh Bundeale, Director, PCE, Mr Amit Kakkar, Additional Chief Engineer, PWD & Mr. Manoj Goyal, Regional Director, PWD.** 60 students of PCE along with the faculty members attended the Distinguished Lecture.

Dr Kishor Khankari is the President of AnSight LLC in Ann Arbor, Michigan (USA). He provides engineering solutions and insights through Physics based simulations and CFD analysis. Dr. Khankari has developed a patented technology of a wind band design of exhaust fan assembly systems. Dr. Kishor Khankari is a Fellow member of ASHRAE. He is also a recipient of ASHRAE Exceptional and Distinguished Service Awards.

During the technical talk on Basics of Air Change Rates (ACH): Facts versus Fiction. **Dr. Khankari** explained the Basics of Air Change Rates along with concept of ventilation. He explained the concept with the help of CFD models using examples of Hospital Operation Theater. **Dr. Khankari** precious words enlightened the horizons of knowledge of the gathering.

Mr Amit Kakkar, Additional Chief Engineer, PWD gave the votes of thanks to speaker along with all participants.

SCHEDULE

ASHRAE Distinguished Lecturer Program Basics of Air Change Rates (ACH): Facts versus Fiction

Dec 10, 2019

Q-Sheet

Venue: Seminar Hall, PCE

Time: 10:00 AM to 11:20 AM

S. No.	Program	Timings
1.	Arrival of Guests at Seminar Hall, PCE	10:00 AM
2.	Welcome of Dignitaries and Bouquet & Memento presentation Felicitation of Dr. Kishor Khankari, President, AnSight LLC, Arbor, USA By Dr. Mahesh Bundeale, Director, PCE	10:05 AM
3.	Welcome address by Dr. Mahesh Bundeale, Director, PCE	10:05 AM to 10:10 AM
4.	Lecture on “ Basics of Air Change Rates (ACH): Facts versus Fiction ” by Dr. Kishor Khankari	10:10 AM to 11:10 AM
5.	Vote of Thanks by Anchor	11:15 AM
6.	Group Photograph	11:20 AM

Glimpses







Lecture by Dr. Kishor Khankari





List of Participants

S. No	Registration No.	Sem.	Name of Student
1	PCE16ME116	VIII	VIJENDRA SINGH
2	PCE16ME067	VIII	NITIN KHANDELWAL
3	PCE16ME100	VIII	SHIVAM AGARWAL
4	PCE16ME082	VIII	RAHUL MEENA
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85	PGI17ME028	VI	RAHUL ALRIA
86	PGI17ME036	VI	VIKAS SHARMA
87	PGI17ME001	VI	ABHISHEK GURJAR
88	PGI17ME019	VI	HIMMAT SINGH



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A REPORT ON NATIONAL WORKSHOP

TITLE AND DURATION: “A National Workshop on BIM for HVAC” Oct 9, 2019

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

ORGANIZERS: PCE, Jaipur.

FLYER / POSTER:











‘ASHRAE India Chapter’
in association with
‘Capricot Technologies’
&
‘MEP a2z - Building Services Design & Energy Institute’
is organising

WORKSHOP SERIES ACROSS INDIA
“BIM FOR HVAC”
Great Opportunity for students to make their career in BIM !!!

- Overview of Mechanical and Electrical (Building) Services
- Job options and other career options in ASHRAE/ MEP/ BIM
- Overview of BIM
- Using ASHRAE standards in BIM
- Various tools of BIM/ MEP
- Future Involvement of the Students

Participation Certificate will be provided to each participant

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SESSION DESCRIPTION

Department of Mechanical Engineering, **Poornima College of Engineering, Jaipur** and **ASHRAE India Chapter** organized a one day workshop on **BIM for HVAC** on Wednesday i.e. Oct 9, 2019 in association with **Capricot Technologies Pvt. Ltd, Autodesk and MEP a2z**. The main objective of this workshop is to make the students acquainted with BIM (Building Information Modeling) and MEP (Mechanical, Electrical and Plumbing) Designing. The workshop ended with vote of thanks. Mr. Shailendra Kasera gave the vote of thanks to all the experts and participants.

One Day Workshop on BIM for HVAC

Oct 9, 2019

Q-Sheet

Venue: Seminar Hall, PCE

Time: 10:00 AM to 2:45 PM

S. No.	Program	Timings
1.	Arrival of Guests at Seminar Hall, PCE	10:00 AM
2.	Welcome of Dignitaries and Bouquet presentation Felicitation of Ms. Priyanka Jain , Director, Training & Development, Building Services Design & Energy Institute, Delhi By Mr. Pankaj Dhemla , Vice Principal, PCE Felicitation of Mr. Dinesh Rawat , Coordinator, ASHRAE India Chapter by Dr. Yogesh Kumar , HOD, ME, PCE Felicitation of Mr. Nazim Khan , BIM Evangelist – BIM, Capricot Technologies Pvt. Ltd., New Delhi by Mr. Shailendra Kasera , Asst Prof, ME, PCE	10:05 AM
3.	Welcome address by Mr. Pankaj Dhemla , Vice Principal, PCE	10:05 AM to 10:10 AM
4.	About ASHRAE by Mr. Dinesh Rawat , Coordinator, ASHRAE India Chapter	10:10 AM to 10:15 AM
5.	Talk on Scope and Career opportunities in the field of MEP by Ms. Priyanka Jain , Director, Training & Development, Building Services Design & Energy Institute, Delhi	10:15 AM to 10:30 AM
6.	Lecture on “ BIM for HVAC- Session I ” by Mr. Nazim Khan , Evangelist – BIM, Capricot Technologies Pvt. Ltd., New Delhi	10:30 AM to 12:00 PM
7.	Lunch	12:00 Noon
8.	Lecture on “ BIM for HVAC- Session II ” by Mr. Nazim Khan , BIM Evangelist – BIM, Capricot Technologies Pvt. Ltd., New Delhi	12:45 PM to 2:45 PM
9.	Vote of Thanks	2:45 AM

ONE DAY WORKSHOP ON BIM FOR HVAC

October 9, 2019



POORNIMA
COLLEGE OF ENGINEERING
Department of Mechanical Engineering



KEY TOPICS

- Overview of Mechanical and Electrical (Building) Services
- Job Options and other career options in MEP and BIM
- Overview of Building Information Modeling (BIM)
- ASHRAE Standard in BIMS
- Various tools of BIM/MEP
- Future Involvements of the students

Fee: Free for ASHRAE Members
Rs 100 for non members

Participation certificate will be provided to each participants



RSVP

Mr. Shailendra Kasera

Mob. : 9983144773

shailendrakasera@poornima.org

Supported by :



Time: 09:00 AM onwards • Venue: CG-05, Poornima College of Engineering, Jaipur

ABOUT THE SPEAKER

The occasion witnessed the presence of **Ms. Priyanka Jain**, Director, Training & Development, Building Services Design & Energy Institute (MEP a2z), **Mr. Nazim Khan**, BIM Evangelist – BIM, Capricot Technologies Pvt. Ltd and **Mr. Dinesh Rawat**, Coordinator, ASHRAE India Chapter. 50 participants of ASHRAE members along with the faculty members of PCE attended the workshop.

Ms Priyanka Jain explained the overview of Mechanical and (Building) Services. She focused upon the career option in BIM and MEP. There is a huge demand of BIM engineers in the market. She told that BIM is among the most promising developments in the AEC (Architecture, Engineering and Construction) segment, and it adopts various digital technologies that would help transform the AEC segment. BIM allows AEC end-users to collaborate with the overall construction work right from the preconstruction to the operations phase.

Mr. Nazim Khan explained the BIM and MEP concept with the help of Autodesk Revit and Navisworks. He explained that all the MEP designing is taking place in Autodesk Revit. Autodesk Navisworks is utilized for clash management.

SCREENSHOTS OF SESSION









Media Coverage

बिल्डिंग डिजाइन पर वर्कशॉप

जयपुर ♦ बिल्डिंग इन्फॉर्मेशन मॉडलिंग फॉर एचवीएसी विषय पर अशरे इंडिया की ओर से पूर्णिमा कॉलेज ऑफ इंजीनियरिंग में एक दिवसीय वर्कशॉप आयोजित की गई। क्रेपिकोट टेक्नोलॉजी, ऑटोडेस्क और एमईपी ए टू जेड के सहयोग से आयोजित इस वर्कशॉप में प्रतिभागियों को बिल्डिंग इन्फॉर्मेशन मॉडलिंग तथा मैकेनिकल, इलेक्ट्रिकल व प्लम्बिंग डिजाइनिंग की

जानकारी दी गई। एमईपी ए टू जेड के बिल्डिंग सर्विसेज डिजाइन एंड एनर्जी इंस्टीट्यूट की ट्रेनिंग एंड डवलपमेंट डायरेक्टर प्रियंका जैन ने स्टूडेंट्स को बीआईएम व एमईपी में करियर ऑप्शंस के बारे में बताया। बीआईएम ईवेंजलिस्ट निजाम खान ने ऑटोडेस्क रेवित व नेविसवर्क्स की मदद से बीआईएम व एमईपी कॉन्सेप्ट्स के बारे में विस्तार से बताया।

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