



# 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 Revy Environment

Solutions Pvt. Ltd, Vadodara

S.N.	Department	Date	Type	Name of Activity	Page No.
1	Mechanical Engineering	10/12/2022	Expert Lecture	Basics of Air Change Rates (ACH): Facts versus Fiction	2-8



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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:** Under MoU with Revy Environment Solutions Pvt Ltd, Vadodara, in association with ASHARE Jaipur Section

**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 CFD 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:**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
CO1	-	-	-	-	3	-	-	-	-	-	-	-	2	3	-
CO2	-	-	-	-	-	-	-	-	3	-	-	-	2	3	-
CO3	-	-	-	-	-	-	-	-	-	-	-	3	2	3	-

#### **FLYER / POSTER:**

## 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 presentations 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.

## Brief Report

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 Bunde**, 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. 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 <b>Dr. Kishor Khankari, President, AnSight LLC, Ann Arbor, USA</b> By <b>Dr. Mahesh Bunde</b> , Director, PCE	10:05 AM
3.	Welcome address by <b>Dr. Mahesh Bunde</b> , Director, PCE	10:05 to 10:10 AM
4.	Lecture on “ <b>Basics of Air Change Rates (ACH): Facts versus Fiction</b> ” by <b>Dr. Kishor Khankari</b>	10:10 AM to 11:10 AM
5.	Vote of Thanks by Anchor	11:15 AM
6.	Group Photograph	11:20 AM



## Glimpses





## 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
5	PCE16ME101	VIII	SHIVMANI KUMAR
6	PCE16ME091	VIII	SAHIL KHAN
7	PCE16ME109	VIII	TALVINDRA KUMAR
8	PCE16ME072	VIII	PRAKASH SUTHAR
9	PCE16ME126	VIII	YOGESH SAHU
10	PCE16ME087	VIII	RAVI RANJAN
11	PCE18ME708	VI	RAHUL KUMAR
12	PCE18ME705	VI	SAJID GOURI
13	PCE18ME704	VI	RAHUL KR. BOHRA
14	PCE18ME709	VI	VINESH SONI
15	PCE17ME092	VI	SOM AGARWAL
16	PCE17ME065	VI	NISHANT KR.
17	PCE17ME069	VI	PARASHRAM MALI
18	PCE17ME057	VI	LOKESH YADAV
19	PCE17ME077	VI	PRASHANT KUMAR
20	PCE17ME074	VI	PIYUSH TIWARI
21	PCE17ME095	VI	TAPAN NYATI
22	PCE17ME045	VI	HARSHITA BHATIA
23	PCE18ME703	VI	MANISH SINGH CHOUHAN
24	PCE18ME706	VI	SHYAM WASI
25	PCE17ME002	VI	AADITYA SINGH
26	PCE17ME003	VI	AADITYA SINGH RAJAWAT
27	PCE18ME037	IV	LAKSHAY KHANDELWAL
28	PCE18ME058	IV	ROHIT PRADHAN
29	PCE18ME057	IV	ROHIT KUMAR VERMA
30	PCE18ME076	IV	SAMEER BARGUJAR
31	PCE17ME039	VI	GOVIND PATEL
32	PCE17ME036	VI	GOURAV SHARMA
33	PCE17ME040	VI	HARISH GUPTA
34	PCE17ME019	VI	AAYUSH KHANDELWAL
35	PCE17ME016	VI	ARMESH SAINI
36	PCE17ME009	VI	AMIT SINGH RAWAT
37	PGI17ME030	VI	SAMNDEEP KUMAR SONI
38	PGI17ME009	VI	BHAVESH KUMAR
39	PGI17ME005	VI	ALI SHAN
40	PGI17ME011	VI	KAUSHAL KISHOR
41	PGI17ME007	VI	ARVIND SINGH
42	PGI17ME013	VI	DINESH KUMAR MEENA
43	PGI17ME037	VI	ANKIT KUMAR SISODIYA
44	PGI17ME104	VI	YASH KUMAWAT



45	PGI17ME004	VI	ALASHAD CHIPPA
46	PCE18ME034	IV	JOBIN DAVID
47	PCE18ME045	IV	NIDISH PAREEK
48	PCE17ME078	VI	PRAVEEN KUMAR JHA
49	PGI17ME026	VI	NISHANT MAHESHWARI
50	PCE17ME080	VI	RAHUL
51	PGI17ME037	VI	ANKIT KUMAR
52	PGI17ME010	VI	BHAWANI SHANKAR SHARMA
53	PGI17ME024	VI	MUHAMMAD AAKIB
54	PCE17ME101	VI	VIKRAM THAKUR
55	PGI17ME027	VI	PRIYA YADAV
56	PCE17ME029	VI	DIVYANSHU SINGHAL
57	PCE17ME038	VI	GIRISH GUPTA
58	PCE17ME041	VI	HARSH RAJ
59	PCE17ME015	VI	ANURAG AGARWAL
60	PCE17ME048	IV	PRABHAKAR THAKUR
61	PCE17ME007	VI	AMAN BHARDWAJ
62	PCE17ME021	VI	BHASKAR SHARMA
63	PCE17ME064	VI	NARESH BABU SHARMA
64	PCE17ME043	VI	HARSHIT LUHAR
65	PCE17ME707	VI	VIPUL SINGH SOLANKI
66	PCE18ME065	IV	SHUBHAM THERA
67	PCE17ME033	VI	GAURAV JOSHI
68	PCE17ME027	VI	DEVENDRA SINGH
69	PCE17ME024	VI	CHIRAG LODWAL
70	PCE17ME048	VI	KANHAIYA KUMAR
71	PCE17ME032	VI	GANESH SHARMA
72	PCE17ME031	VI	GAGAN DEEP
73	PCE17ME042	VI	HARSHIT KUMAR MEENA
74	PCE17ME049	VI	KARAN SUTHAR
75	PCE17ME054	VI	LALIT SINGH
76	PCE18ME038	IV	LAKSHAY MITTAL
77	PCE17ME055	VI	LEKHA TIWARI
78	PCE17ME075	VI	PRAKHAR TOLAMBIA
79	PCE17ME053	VI	LAKSHAY SAPRA
80	PCE17ME063	VI	NARESH
81	PGI17ME003	VI	ADITYA GUPTA
82	PGI17ME034	VI	SUNIL KUMAWAT
83	PGI17ME032	VI	SHER SINGH
84	PGI17ME016	VI	HARSHIT SAINI
85	PGI17ME028	VI	RAHUL ALRIA
86	PGI17ME036	VI	VIKAS SHARMA
87	PGI17ME001	VI	ABHISHEK GURJAR
88	PGI17ME019	VI	HIMMAT SINGH