

**A Report on**

**The H<sub>2</sub>O Carnival**

**Presented by**



**Dr. SS Bhatnagar University Institute of Chemical  
Engineering and Technology**

**Panjab University, Chandigarh**

Indian Institute of Chemical Engineers- Chandigarh Student Chapter

**In collaboration with**

**Indian Institute of Chemical Engineers**

Vellore Institute of Technology,

Vellore (IICChE-VIT)



# Team

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## **THE H<sub>2</sub>O CARNIVAL**

Dr. SSBUI CET (IChE-CSC) in collaboration with IChE-VIT organised a week long technical event on the theme of World Water Week having **Om Chaturvedi & Priyanshu Jain** as the event heads.

### **Objective:**

**“A LEARNING CURVE IS ESSENTIAL TO GROWTH.”**

Developing learning skills will help prepare life-long learning as well as foster independence in problem solving, decision-making, organizing and managing. These are the skills which are quite necessary and keeping this in mind Dr. SSBUI CET (IChE-CSC) in collaboration with IChE-VIT organized a five-day online technical event “The H<sub>2</sub>O Carnival” on the occasion of “World Water Week”. The importance of conducting this event is to provide a national level open platform where students from various colleges with different backgrounds can learn and get exposure about the water preservation and treatment. Basically today, everyone is a daily consumer of water and of course aware of its importance but when it comes about water treatment everyone is completely blank except the experts of their respective field. So, majorly our main focus of this event is to create awareness regarding waste water treatment at the student level so they can indulge in researching and find sustainable methods of water treatment otherwise the safe drinking water for the single individual would be a dream.

### **Event Details:**

The extravaganza was organised on the occasion of World Water Week from 23<sup>rd</sup>-27<sup>th</sup> August, 2021. All the events were held in evening between 4 p.m. and 8:30 p.m. On the first day of the carnival, approximately 80 students attended the webinar. While for the second day, more than 300 entries were registered for the quiz. For the IDP, six brilliant teams came up with their amazing research work, and on the final day, around 15 students turned up for the group discussion.

## DAY 1: The Waste Water Paradox

### “IF THERE IS MAGIC ON THIS PLANET, IT IS CONTAINED IN WATER”

On day one, with around 80 participants, the eminent speaker, Mr. Vivek Verma, enlightened the students about the importance of Industrial waste/ Effluent treatment before discharging them into water bodies and preventing damage to the environment. The webinar started at 5 p.m. with the introductory speech of Apoorv Uniyal, moving ahead with Mr. Vivek telling about the industrial effluent sources and giving information about the different types of treatments adopted by the industries and their sub-units. We also learned about different parameters, to determine the quality of water and about the equipment used to screen, measure, scale and maintain these parameters. At the end, he mentioned about the various disposal techniques of by-products like sludge and concluded with positive words. The day ended with a live Q&A session, followed by a vote of thanks by Dr. Sonia Sharma and Dr. Surinder Singh Bhinder, faculty advisor of Dr. SSBUI CET (IICHe-CSC) and the IICHe-CSC organizing team.

The event was coordinated by Kamaldeep Singh from Dr. SSBUI CET (IICHe-CSC) and Sai Lalit from IICHe-VIT.

The screenshot displays a Google Meet interface during a webinar. The main content area shows a presentation slide with two diagrams:

- (a) Activated Sludge Treatment (AST) Process:** This diagram illustrates a linear flow starting with 'Wastewater' entering a 'Grid' for 'Solids removal'. The water then goes to 'Pre-treatment', followed by an 'Aeration zone' where 'Air' is introduced. The output goes to a 'Settler', then 'Sand filtration', and finally 'Disinfection' to produce 'Effluent'. 'Sludge' is shown as a by-product.
- (b) Membrane Bioreactor (MBR) process:** This diagram follows a similar initial path: 'Wastewater' through 'Grid' and 'Pre-treatment' to an 'Aeration zone' with 'Air' input. However, instead of a settler, it uses a 'Membrane' for filtration, followed by 'Disinfection' to produce 'Effluent'. 'Sludge' is also shown as a by-product.

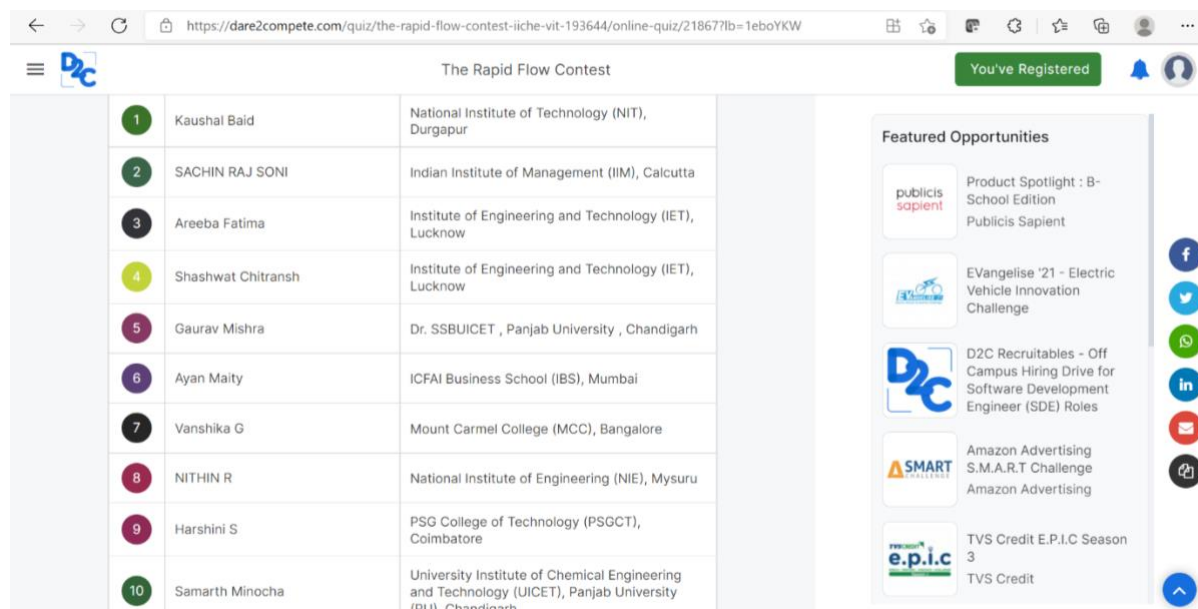
The interface includes a 'People' list on the right with participants like Apoorv Uniyal (You), 11Aleena Sara, Abhishek kumar, Afshan Sania, Ahana Ghosh, Ainesh Shaw, Akansha Gupta, and Aman Kumar Pal. The top bar shows the meeting URL 'meet.google.com/mir-uamq-dpy' and the presenter 'Dr SSBUI CET PU Chandigarh is presenting'. The bottom status bar shows the time '5:39 PM' and the meeting ID 'mir-uamq-dpy'.

## DAY 2: The Rapid Flow Contest

**“WATER IS LIFE’S MATTER AND MATRIX, MOTHER AND MEDIUM. THERE IS NO LIFE WITHOUT WATER”**

Quizzes are the best assessment fundamentals in education and similar fields to measure growth in knowledge, abilities, or skills. It helps to explore at an early age, encouraging teamwork, and its unique way of learning experience by providing an interactive platform. So, to promote learning regarding groundwater, Dr. SSBUI CET (IChE-CSE) in collaboration with IChE-VIT conducted an online quiz on the theme ‘Sustainable Groundwater Development in India’. The event was taken on 24th August 2021, from 5:00 PM on the platform Dare 2 Compete. As the name suggests Rapid Contest, so each participant was given exactly 25 minutes for 20 questions. The questions which were framed had different difficulty levels and marks with multiple choice and assertion-reasons type questions. The winner Kaushal Baid from NIT Durgapur and the runner-up Sachin Raj Soni from IIM Calcutta were awarded with certification of excellence and top 20 participants were given certificates of rank from D2C.

The event was coordinated by Sonali from Dr. SSBUI CET (IChE-CSC) and Dyuthi from IChE-VIT.



The screenshot shows the 'The Rapid Flow Contest' results page on the Dare 2 Compete website. The page title is 'The Rapid Flow Contest' and it indicates 'You've Registered'. The results are as follows:

Rank	Participant Name	Institution
1	Kaushal Baid	National Institute of Technology (NIT), Durgapur
2	SACHIN RAJ SONI	Indian Institute of Management (IIM), Calcutta
3	Areeba Fatima	Institute of Engineering and Technology (IET), Lucknow
4	Shashwat Chitransh	Institute of Engineering and Technology (IET), Lucknow
5	Gaurav Mishra	Dr. SSBUI CET , Panjab University , Chandigarh
6	Ayan Maity	ICFAI Business School (IBS), Mumbai
7	Vanshika G	Mount Carmel College (MCC), Bangalore
8	NITHIN R	National Institute of Engineering (NIE), Mysuru
9	Harshini S	PSG College of Technology (PSGCT), Coimbatore
10	Samarth Minocha	University Institute of Chemical Engineering and Technology (UI CET), Panjab University (PU), Chandigarh

On the right side of the page, there is a 'Featured Opportunities' section with the following items:

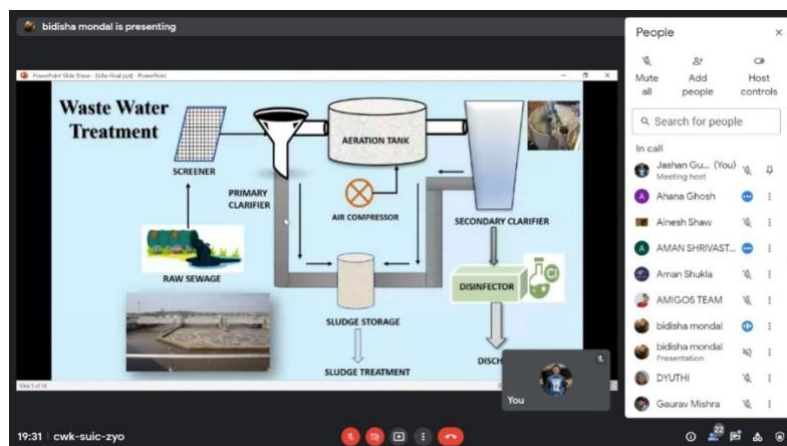
- Publicis Sapient: Product Spotlight : B-School Edition, Publicis Sapient
- EVangelise '21 - Electric Vehicle Innovation Challenge
- D2C Recruitables - Off Campus Hiring Drive for Software Development Engineer (SDE) Roles
- Amazon Advertising S.M.A.R.T Challenge, Amazon Advertising
- TVS Credit E.P.I.C Season 3, TVS Credit

## **DAY 3 & 4: The Aqua Thon**

### **"PRUDENT AND ECONOMIC USE OF WATER MAKES A HUGE DIFFERENCE."**

When you conserve water, you ensure that there will be enough for people to use in your community. Water is a sign of life. The Earth's 97.5% is saline and only 2.5% is freshwater. Hence, Dr. SSBUI CET (IChE-CSC) in collaboration with IChE-VIT have done yet another event of the Series The H<sub>2</sub>O Carnival, Aqua Thon. The event was held over two sessions and in a team of maximum 3 persons. On Day 3, August 25, a problem statement was released at 9:00 a.m. in which problems were designed in such a way that it mainly focuses on the waste-water techniques and how water pollution can be controlled economically and control management techniques of waste water filtration methods. Participants had to submit their solution in the form of an abstract by 5:30 p.m. A total of 6 teams were selected by the organizers after going through the abstracts submitted by the teams and one day time was given to the participants to prepare a presentation regarding the solutions of the problem statement. On Day 4, August 26, from 6:30 p.m. to 8:30 p.m. all the teams had to present their presentations. Each team performed very well in the presentation. Dr. Surinder Singh Bhinder and Dr. Sonia Sharma were the judges for the event, at the end, Sir presented his valuable knowledge on the topic and also praised the sophomores for their great response in the event, motivating them to take part in further events. The event concluded with some words of value by our esteemed judges and the day ended with the vote of thanks by Jashan Gupta and the event organisers. After two days, the results were announced on August 28 and Team Super Tech (Ahana Ghosh, Aman Srivastava, Bidisha Mondal) was the winner of the event followed by the runner-up Team Amigos (Sonali Gahoi, Kumar Pankaj Vats, Madhur Dixit).

The event was coordinated by Jashan from Dr. SSBUI CET (IChE-CSC) and Rohan from IChE-VIT.



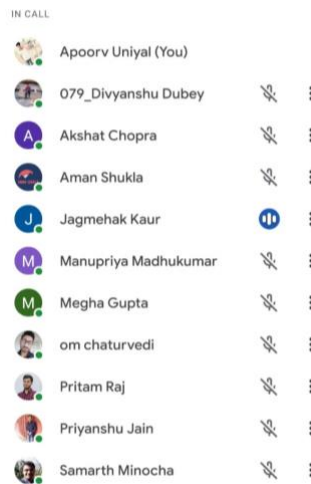


## **DAY 5: The Hydro Panel**

**“WHERE THE WATER DO AGREE, IT IS QUITE WONDERFUL THE RELIEF THEY GIVE.”**

Group discussions have become a crucial aspect in the interviews of various companies and organizations during recruitment. It provides an open avenue and exposure to interact with others where students brainstorm to come across new ideas, which is very important for conceptual learning. Keeping this in mind, Dr. SSBUI CET (IChE-CSE) in collaboration with IChE-VIT conducted an online group discussion event “The Hydro Panel” on the last day of the whole event. The event was headed by Apoorv and Malavika, and a total 30 participants were registered. The event head divided them into four groups with 7 participants in group 1 and 2 whereas 8 participants in group 3 and 4. The event was conducted on Google Meet from 7:00 p.m. onwards where different time slots were allotted to different groups. Each participant was given a time of 5 minute to think on the topic and then 15 minutes of group discussion with the last 1 minute for the conclusion. The respective judges raised some of the questions related to the topic and marking was done accordingly. Tharun, Jacob and Shruti were the judges of group 2 and 3 whereas Akshat Chopra, Jagmehak Kaur were the judges of group 1 and 4. The topic was given ‘Fake rain- Advantages and disadvantages’ and ‘Acid rain- Advantages and disadvantages’ to group 2, 3 and 1, 4 respectively. At the end, participants were marked on the basis of vocabulary, communication skills, topic knowledge, critical thinking, attitude and judges told the mistakes that were made by majority of the panelists including the importance of GD in the recruitment process. Vote of thanks was addressed by Apoorv Uniyal for group 1, 4. The winner of group 1, 4 was Divyanshu Dubey and group 2, 3 was Tushar Jhanwar who was awarded with certification of appreciation and rest participants with the certificate of participation.

The event was coordinated by Apoorv from Dr. SSBUICET (IChE-CSC) and Malvika from IChE-VIT.



## **Feedback:**

Events like these not only help the students build their knowledge about the topic but also develop their soft skills as well. At the end of the event, a feedback form was circulated among the students which received around 100 positive comments. Everyone who actively participated in the webinar, found it to be very informative and enlightening. People enjoyed participating in the quiz which was a sort of their retention test what they understood on the day 1. The IDP and the group discussion were also found to be very useful by the participants, as not only it enhanced their knowledge about wastewater treatment but also added to their speaking skills in a professional environment. The college faculty, students, and the guests were all satisfied with how the entire five-day carnival unfolded.