



**CHITKARA**  
UNIVERSITY



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## CERCHE-2021

Purpose of the conference is to bring researchers of different areas of Chemistry, Environment, and Engineering from world over to discuss on common virtual platform. Researchers' are supposed to talk on prominent advances in chemistry and providing sustainable technological solutions for environmental issues. Conference will be providing virtual platform(s) for keynote, oral and poster presentations.

**International Conference  
on  
Cutting Edge Research in Chemistry and Sustainable Environmental Solutions**

IT WILL GIVE AMPLE OPPORTUNITIES TO DISCUSS AND UNDERSTAND VARIOUS APPROACHES, PHENOMENA OF CHEMISTRY AND WILL FOCUS ON THE FOLLOWING TOPICS:

ORGANIC CHEMISTRY  
INORGANIC CHEMISTRY PHYSICAL CHEMISTRY  
ANALYTICAL CHEMISTRY  
INDUSTRIAL CHEMISTRY  
NANOCHEMISTRY  
GREEN CHEMISTRY  
NATURAL PRODUCT CHEMISTRY  
ENVIRONMENTAL CHEMISTRY  
WASTEWATER TREATMENT  
NUCLEAR CHEMISTRY  
MATERIALS CHEMISTRY  
ELECTROCHEMISTRY  
POLYMER CHEMISTRY  
SUPER MOLECULAR CHEMISTRY

**DATE**

FEBRUARY 20-21, 2021

**TIMINGS**

9:00 AM TO 4:00 PM

## **International Conference on Cutting Edge Research in Chemistry and Sustainable Environmental Solutions**

**February 20<sup>th</sup> -21<sup>st</sup> , 2021 on Virtual mode**

### **Overview:**

1st online International Conference on Cutting Edge Research in Chemistry and Sustainable Environmental Solutions (CERChE-2021) was being organized by Chitkara University from 20-21 February, 2021.

This was an online conference, and no registration fee or publications fees is required. The keynote speaker for this conference was from one of Chitkara University's Global and priority partner Tarlac Agricultural University (TAU), Philippines.

### **About The Conference:**

Purpose of the conference was to bring researchers of different areas of Chemistry, Environment, and Engineering from world over to discuss on common virtual platform. Researchers' are supposed to talk on prominent advances in chemistry and providing sustainable technological solutions for environmental issues. Conference will be providing virtual platform(s) for keynote, oral and poster presentations.

It wouldl give ample opportunities to discuss and understand various approaches, phenomena of chemistry and will focus on the following topics:

- Organic Chemistry
- Inorganic Chemistry
- Physical Chemistry
- Analytical Chemistry
- Industrial Chemistry
- Nanochemistry
- Green Chemistry
- Natural Product Chemistry
- Environmental Chemistry

It was proposed to publish the selected research papers presented during the conference in the said journal after peer review process issue (March-2021) of Journal of Chemistry, Environmental Sciences and its Applications Journal.

The journal is indexed in many reputed databases, for more information visit the website (<https://jce.chitkara.edu.in/index.php/jce/indexing>)

The "Journal of Chemistry, Environmental Sciences and its Applications" (<https://jce.chitkara.edu.in/>) is a peer-reviewed, no APCs, bi-annual Open Access Journal of "Chitkara University Publications". Delegates can read more about the journal's open access policy at [Sherpa RoMEO](#) website. Also, you can check journal's compliance with your funder's policy at the [journal checker tool](#), as per the Plan-S.

All **authors** will get e-Certificate of participation.

#### **Conference Venue:**

Virtual studio of Chitkara University

#### **Who should attend the Conference?**

Research Scholars, faculty and scientists engaged in the field of Chemistry & Environment (Experimental & Theoretical) would benefit from this Conference. Postgraduate students and college teachers who are seeking career in research in the field of chemistry should join it.

The Conference will have invited talks, oral presentations, and poster sessions.

#### **Conference Language & Proceedings:**

The proceedings of the Conference will be conducted in English. All presentations including discussions and submitted materials must be in English.

#### **Call for Abstracts:**

Authors are invited to submit one page abstract by January 31, 2021 via e-mail to [editor.jce@chitkara.edu.in](mailto:editor.jce@chitkara.edu.in).

#### **Submission of abstracts guidelines are given below:**

Abstract should be written in English of one page (A4 size) including tables and figures, margins should be Top - 25 mm, Bottom - 25 mm, Left - 31 mm,

Right - 31 mm, text processor MS Word, Times New Roman font, single spaced. The abstract headings should be centered and conformed to the following guidelines:

TITLE - all capitals, 14 pt., bold, skip one line, Authors - 12 pt., Affiliation -10 pt., italics, one line should be skipped between affiliation and the text of the abstract. The text should be 11 pt., single spaced and justified.

## Contact:

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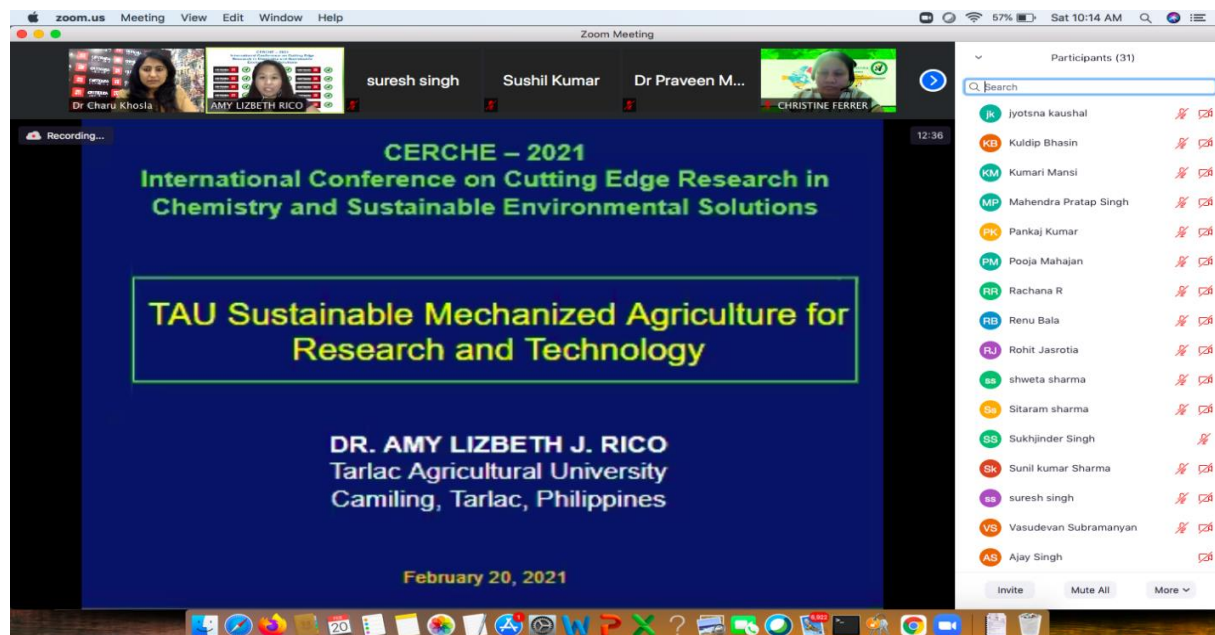
## Technical Program Overview:

On an international level galaxy of researchers and academicians from Philippines, Nigeria, Brazil and Turkey participated to present their research work through their Oral presentations. At the national level delegates from Punjab, Haryana, Himachal Pradesh, Chandigarh, N C R Delhi region, Jammu and Kashmir, Utter Pradesh, Gujarat, Maharashtra, Tamilnadu and Sikkim participated in the various invited talks, oral presentation.

Total of 23 research papers were presented on the first day of the conference, in the various disciplines of the chemistry such as organic chemistry, pharmaceutical chemistry, environmental chemistry, inorganic chemistry, water chemistry, green chemistry, soil chemistry, agricultural and material chemistry.

## Keynotes :

The first Keynote address was delivered by **Dr. Amy Lizbeth Rico from Tarlac Agricultural University, Camiling, Tarlac Philippines**. She spoke on Hydroponics under Greenhouse conditions with automation techniques. She also emphasized the hydroponic system for self sufficiency of the country by adopting the mentioned hydroponic techniques.



Prof. S. P. Singh Former Vice Chancellor, Himalayan University, Itanagar, Arunachal Pradesh, Former Vice Chancellor, VKS University, Ara, Bihar, India, and Professor (R) of



Geology & Environmental Sciences also gave the keynote inaugural address on Green Technology for Sustainable Development.

### Invited Talks :

There were in total 11 invited talks. International delegate Dr. Kaana Asemave, from Chemistry Department of Benue State University, Makurdi-Nigeria gave the invited talk on the Bioactive Potentials of Groundnut Shell Extracts on the day -1.

On day -2, the invited talk was given by Prof S. Vasudevan, Senior Principal Scientist & Professor (AcSIR), CSIR-Central Electrochemical Research Institute, Karaikudi on Green Technologies for Sustainable Water Management.

This was followed by ORAL PRESENTATIONS which were delivered by young researchers from various universities of India on both the days in different sessions and all the sessions were chaired by distinguished Professor in the key areas. SESSION 1 and 2 was on Physical/Analytical/Inorganic and SESSION-3 was on Nano-Chemistry and Green Chemistry. SESSION-4 of oral presentation was based on Organic Chemistry, SESSION-5 was on Physical/Analytical/Inorganic and SESSION-6 was based on Polymer/Material and Environmental Chemistry.

The screenshot shows a Zoom meeting window. At the top, the title bar reads "zoom.us Meeting View Edit Window Help" and "Zoom Meeting". Below the title bar, there are video thumbnails for "Dr Charu Khosla", "Sushil Kumar", "Vasudevan Subra...", "Chitkara Univ...", "Kamal Kapoor", and "J Nagendra B...". A yellow banner across the top of the presentation area reads "Demonstration of Electrochemical De-fluoridator".

**Features**

- Anode - Aluminium Alloy
- Cathode - GI
- Cell container - PVC
- Initial concentration - 5ppm
- Final concentration - < 1.0ppm

1. M/S. Sandur Fluid Controls (P) Ltd, Bangalore - 560 022
2. M/s. Nagpur Aquatech (P) Ltd, Nagpur - 440 016
3. M/s Speciality Products P Ltd., Raipur - 452 001
4. M/S. Shrinathji Kayakalp (P) Ltd, Raisen District (MP)
5. M/s. Surya International Odisha - 760001

The right side of the Zoom window shows a list of 24 participants, including Dr Charu K... (Co-host, me), Chitkara University (Host), Vasudevan... (Co-host), Pooja Mahajan (Co-host), Sushil Kumar (Co-host), Ajay Singh, Akanksha Manhas, AKSHITA BANDRAL, Anju Rani, Biswajit Gopal Roy, Himani Singh, J Nagendra BABU, Jandira Carla Botelho Menezes, Jyotsna kaushal, Kamal Kapoor, and LALITA DEVI.

At the end 3 best oral presentations were declared that was followed by the valedictory presentation by Prof (R) K K Bhasin, Panjab University Chandigarh, India and vote of thanks by Dr. Sushil Kumar, Chitklara University Publications.

## Acknowledgement:

We know that without the understanding of human values we cannot follow the research ethics too So, in addition to the scientific activities conference organizers acknowledges the an online video presentation by Honorable Respected former Chief Justice of India Mr. Ramesh Chandra Lahoti. who had discussed many points of the Indian culture and the connection of it in global perspective.

Thanks are also to the organizing team: Prof. Jyotsna Kaushal, Dr Charu Khosla, Dr Arun Srivastav, Dr Mohit Kapoor, Dr Pooja Mahajan – chaired various sessions and also helped in giving suggestions , improvements and making corrections in formatting of the chosen papers.



# CERCHE -2021

1st Online International Conference

## CUTTING EDGE RESEARCH IN CHEMISTRY AND SUSTAINABLE ENVIRONMENTAL SOLUTIONS

Purpose of the conference is to bring researchers of different areas of Chemistry, Environment, and Engineering from world over to discuss on common virtual platform. Researchers' are supposed to talk on prominent advances in chemistry and providing sustainable technological solutions for environmental issues. Conference will be providing virtual platform(s) for keynote, oral and poster presentations.



### KEYNOTE ADDRESS

**Prof. S. P. Singh**

Former Vice Chancellor, Himalayan University  
Former Vice Chancellor, VKS University  
Professor (R) of Geology & Environmental Science



### KEYNOTE SPEAKER

**Engr. Amy Lizbeth Rico**

Tarlac Agricultural University, Camilin  
Philippines

## SPEAKERS



**Dr. Praveen Malik**  
Department of Physics,  
Dr B R Ambedkar National  
Institute of Technology,  
Jalandhar



**Dr. Navneet Kaur**  
Department of Chemistry,  
Panjab University,  
Chandigarh,



**Dr. Rachana**  
Department of  
Biotechnology, IIIT Noida



**Dr. Kaana Asemave**  
Department of Chemistry,  
Benue State University



**Prof. Tokeer Ahmad**  
Department of Chemistry,  
Jamia Millia Islamia



**Dr. J. Nagendra Babu**  
Assistant Professor  
Centre for Chemical Sciences  
School of Basic and Applied  
Sciences Central University of  
Punjab Bhatinda, Punjab



**Dr. S. Vasudevan**  
Senior Principal Scientist &  
Professor (ACSIR),  
Electroorganic Chemicals  
Division, CSIR-Central  
Electrochemical Research Institute



**Prof. Kamal Kapoor**  
Department of Chemistry,  
University of Jammu



**Dr. Biswajit Gopal Roy**  
Assistant Professor  
Dept. of Chemistry  
Sikkim University



**Dr Akash Deep**  
Senior Scientist Nanotechnology Lab,  
Division: H1 Central Scientific  
Instruments Organization  
(CSIR-CSIO)



**Dr Abhishek Kumar**  
Assistant Professor  
Department of Environmental Science,  
Veer Bahadur Singh Purvanchal  
University, Jaunpur

DATE 20 & 21 FEBRUARY 2021 | TIME 9 AM - 4 PM