



# International Conference on ADVANCES IN CHEMICAL SCIENCES AND NANOCOMPOSITES



**1-2 April, 2022  
New Delhi, India**

**ZAKIR HUSAIN DELHI  
COLLEGE**

**Venue: Salman Ghani Hashmi Auditorium, ZHDC**

Jointly organized by

**Zakir Husain Delhi College, University of Delhi  
(under the aegis of IQAC)**

**Indian Society of Analytical Scientists, (ISAS) Delhi Chapter**

Funded by

**Defence Research and Development Organisation (DRDO)**

**Register and submit abstract by :15th March, 2022**

**To register, click on the link: <https://forms.gle/E1Gxqm7o8a8Quucl9>**

**For any query please write to us at- [acsnzhd22@gmail.com](mailto:acsnzhd22@gmail.com)**

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**ACSN 2022**

## Background and Objectives

Chemical science and technology being a multidisciplinary field, the research investigations cover a wide spectrum of topics. Likewise, cross disciplinary nanotechnology has also emerged as one of the frontier areas of current research and development in almost all technical disciplines. Advances in these two broad research areas have been immense in the last few years. Tribological issues related to oil, lubricants and petrochemicals have also received considerable interest owing to the demand for improved efficiency of engine fuel. Development of nanocomposites over the years has grown immensely with the availability of a host of polymer matrices, biopolymers and scores of nanofillers. Areas related to this field include nanoelectronics, biomaterials, nanoparticles, nanofillers, drug delivery, miniemulsion particles, fuel cell electrode polymer bound catalysts, layer-by-layer self-assembled polymer films, nanofibers, imprint lithography, polymer blends etc. Polymer membranes consist of nanosized pores and voids while miniemulsion particles are often below 100 nm. In general, the nanoscale of dimensions represents the transition zone between the macrolevel and the molecular level. The current interest in polymer matrix based nanocomposites has emerged largely due to research involving exfoliated clay, functionalized carbon nanotubes, carbon nanofibers, exfoliated graphite (graphene), nanocrystalline metals and a host of additional nanoscale inorganic filler or fiber modifications. Understanding the property changes as the particle (or fiber) dimensions decrease to the nanoscale level is a key to optimize the properties in resultant nanocomposite. Keeping these objectives in mind, this international conference is being organized to bring the scientists, academicians and researchers who are working in the multidisciplinary field of chemical sciences, petrochemicals and nanocomposites on one platform where they can deliberate and disseminate the information on various aspects of research and development.

## Conference Themes

- Chemical syntheses
- Petrochemicals
- Biomolecules
- Biodegradable polymers
- Oil & Lubricants
- Nanofillers
- Pathogens
- Anti-viral coatings
- Polymer Nanocomposites
- Carbonaceous fillers
- Drug Delivery
- Characterization

## Call for Abstract Submission for Oral/Poster Presentation

Abstract submission deadline: **15th March, 2022**

Submit **MS word file** of the extended abstract of **300 words** in the following format: Times New Roman font (Title 14 pt. Bold, Main text 12 pt. Normal), Single line Spacing, Name and affiliation of Author/s followed by 3 key words. (Do not insert figures and tables)

**Corresponding author of the accepted abstract will be informed to submit full length paper.**

**ACSN 2022**

## Registration

Registration Fee	Before 15 March	After 15 March
Foreign Delegate	US\$ 100	US\$ 150
Indian Delegate (Scientists/ Faculty/ Industry)	Rs. 1500	Rs. 2000
Indian Research Scholar	Rs. 1000	Rs. 1500
Indian Student(UG/PG : Without Registration kit )	Rs. 800	Rs. 1200

**Fee should be submitted AT THE TIME OF REGISTRATION.**

Participants can register by submitting the fee through **NEFT/RTGS**.

Bank details are given in the **Google Form**.

The registration fee includes **Registration kit, Lunch and Cultural Evening**, followed by **Dinner**.

## Publication

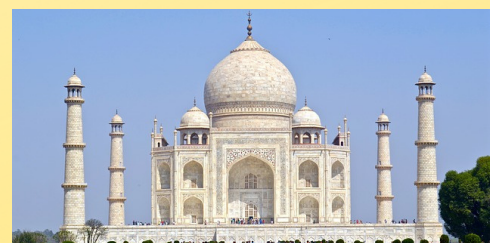
Accepted manuscripts are proposed to be published as full length research papers in a special issue of a referred journal after peer reviewing.

## Awards

- Best oral presentation-(02)
- Best poster presentation-(02)

## Local sightseeing

Local sightseeing in Delhi and a post-conference tour will be arranged to visit Taj Mahal, Agra on payment basis.



## Address for Correspondence

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**ACSN 2022**

## Delhi - The Capital

Delhi, one of the world's great cities, whose territory is spread over nearly 1500 sq. kms, and is home to nearly 20 million people. Eight cities have existed in the area. Cities whose stories began in antiquity and are continuing in living history. Delhi has been India's political capital almost continuously since the twelfth century. Delhi is the most diverse and extensive centre of higher education in the country. It has 27 Universities and more than 200 colleges, with an estimated 800,000 students enrolled in various programs across universities, colleges and other centres of education.



## University of Delhi

The University of Delhi is a principal global leader in knowledge creation and dissemination that believes in building and sustaining an academic ambience that enables students to realize their potential without fear or favour. The university offers exceptional educational opportunities straddling a wide range of programmes and advanced curricula taught by renowned faculty. Besides offering an avant-garde pedagogy, the university offers comprehensive extracurricular activities and excellent infrastructure. The university is a proud alma mater of many alumni, who have distinguished themselves in different spheres of human endeavour. Presidents of four nations; one of our Prime Ministers studied from here, while another one decorated its faculty. Some of India's best-known litterateurs, intellectuals, scientists, economists, legal luminaries, civil servants, defence personnel, politicians, sportspersons, film personalities, and business leaders have been students of DU or have served as its faculty members.

## Zakir Husain Delhi College (Accredited 'A' by NAAC)

Zakir Husain Delhi College, is one of the constituent colleges of the University of Delhi. While it adheres to the University's principles and processes, it has a rich history and heritage predating the inception of the University by more than 300 years; which act as a guide to its ideals and their execution in the functioning of the college. The motto of the college is "Live by Love" and its hallmark is the spirit of harmony. Education at the institution is not merely restricted to the pursuit of information. The college aims for holistic development of the individual under the guidance of dedicated and talented faculty members. The pursuit of academic excellence goes hand in hand with a thriving cultural scene. Students of this college are encouraged to have scientific temper, a progressive outlook, and a thorough grounding in humanistic values



## Indian Society of Analytical Scientists (ISAS), Delhi Chapter

The Indian Society of Analytical Scientists (ISAS) - Delhi Chapter is a scientific forum constituted in December 1992 with Indian Oil R&D Centre Faridabad as its Headquarters. It's jurisdiction comprises of Delhi, Chandigarh, Punjab, Haryana & any other contiguous area in that region. The present membership of the chapter is more than 1000. The prime objective of this fledgling scientific body is to provide a platform to a large cross section of scientific community in this part of country, who are engaged in rendering analytical services, so as to exchange their views and findings and to collaborate among themselves for mutual benefits. The main objective of the Society is to promote, encourage and develop the growth of Analytical sciences and their applications.

**ACSN 2022**

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