

# AUCHEMICAL 1990 CLASS

sponsored

11<sup>th</sup> National Conference

on

“Challenges in Chemical and Biochemical Engineering for Sustainable Development (CBSD)”

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Annamalai University Chemical Engineering Students Paper Presentation Contest

24<sup>th</sup> & 25<sup>th</sup> January, 2025

Announcement

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Call for Papers

Conference chairs : Prof. P. Mullai  
Prof. M. Thenmozhi  
Prof. B. Suresh

Conference co-chairs : Dr. V. Saravanan  
Dr. K. Manikandan



(A State University accredited with 'A+' Grade by NAAC)



Organized by

Department of Chemical Engineering

(DST-FIST sponsored)

Faculty of Engineering and Technology

Annamalai University

Annamalai Nagar - 608002, Tamil Nadu, India

## Organising Committee

Chief patron	:	<b>Prof. T. Arutselvi</b> Member, Vice-Chancellor Convener Committee, Annamalai University
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Chairperson	:	<b>Prof. R. Saravanan</b> Head, Department of Chemical Engineering, Annamalai University
Conference chairs	:	<b>Prof. P. Mullai</b> <b>Prof. M. Thenmozhi</b> <b>Prof. B. Suresh</b> Department of Chemical Engineering, Annamalai University
Conference co-chairs	:	<b>Dr. V. Saravanan</b> <b>Dr. K. Manikandan</b> Associate Professors Department of Chemical Engineering Annamalai University.

## National Scientific Committee

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## About the University

In the early 1920s Rajah Sir S. R. M. Annamalai Chettiar founded Sri Minakshi College, Sri Minakshi Tamil College and Sri Minakshi Sanskrit College at Chidambaram. The Annamalai University was founded in the year 1929 with seven departments by the benevolent, intuitive and noble hearted philanthropist Dr. Raja Sir Annamalai Chettiar of Chettinad who dedicated his life for its growth. The University has flourished into a premier, unitary and residential University over the years. One of the most significant developments is the enactment of the Annamalai University Act, 2013 (Tamil Nadu Act 20 of 2013), which has come into force from September 25, 2013. Annamalai University is accredited with 'A' Grade by NAAC in 2014. "The NIRF-2020" by the ministry of human resource development (MHRD) has ranked the University in the band 101 - 150 in the overall category as well as the university category. In the pharmacy category the ranking is 12<sup>th</sup> in India. In the medical category the ranking is 35<sup>th</sup>. "The Times Higher Education World University Ranking - 2021" has ranked Annamalai University in 1000+ for Overall category. In the subject category ranking, 2021, the University is ranked 601+ for clinical & health subjects, in the band of 801-1000 for engineering, 801+ for life sciences and 1000+ in the physical sciences subjects. The QS world university ranking - 2021" has ranked Annamalai University in the band of 301-350 in Asia ranking, and 39<sup>th</sup> in India ranking. "The CWTS Leiden ranking 2019", on scientific impact of universities and on universities' involvement in scientific collaboration & scientific performance, has ranked the University at 23<sup>rd</sup> based on the number of publications and 7<sup>th</sup> based on the proportion of publications that, compared with other publications in the same field and in the same year, belong to the top 10% most frequently cited. Among the top 212 ranked institutions for higher education in India the "SCImago institutional ranking (2019)" has ranked Annamalai University as 9<sup>th</sup> in Tamil Nadu and 29<sup>th</sup> in India.

Annamalai University is one of the largest unitary, teaching, and residential universities in southern Asia comprising of 10 faculties and 49 departments of study. This University has played a pivotal role in providing access to higher education to thousands of youth cutting across the social spectrum, especially from economically and socially disadvantaged classes. In this respect, this University's service to the nation is tremendous.

## About the Department

The department of chemical engineering, one among the eleven departments under the faculty of engineering and technology was established in 1945 and stands second in the list of institutions to offer chemical engineering programme in Tamil Nadu. This department is a DST-FIST sponsored one and received research grants worth of Rs 341.51 lakhs from various funding agencies like AICTE, DBT, DST, MoEF, MoES, MoFP and UGC. This department offers undergraduate course in chemical engineering; postgraduate and doctoral programmes in chemical engineering and food processing technology; and doctoral programme in industrial biotechnology and industrial safety engineering.

## Theme of the Conference

Chemical and biochemical engineering deals with the application of physical science, i.e., chemistry and physics, and life sciences with mathematics and economics, to the process of converting raw materials into more useful, valuable forms. In addition to this, modern chemical engineering is also concerned with development of valuable new materials and techniques for nanotechnology, pharmaceuticals, fuel cells and biochemical engineering applications. The conference aims to foster interdisciplinary research in state-of-the-art methodologies and technologies within chemical and biochemical engineering. The meeting also targets to attract the participants with different backgrounds, to discuss innovative theories, frame methodologies, tools, and applications in these areas for improving the quality of life.

## Annamalai University Chemical Engineering Students Congress

Flash presentation sessions for the Annamalai University Chemical Engineering students will be organized

## Call for papers

In concomitant with the said major themes this conference invites research papers of proven quality on the following sub-themes.

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|---|---|
| ➤ Agricultural biotechnology                        | ➤ Environmental engineering and sustainable development |
| ➤ Biodiversity conservation                         | ➤ Food technology                                       |
| ➤ Bioenergy and environment                         | ➤ Green technology                                      |
| ➤ Biomaterials                                      | ➤ Marine biochemicals                                   |
| ➤ Bioprocess engineering                            | ➤ Mathematical modeling                                 |
| ➤ Bioreactors and bio-kinetics                      | ➤ Microbiology  |
| ➤ Biotechnology applications in medicine and health | ➤ Nanotechnology  |
| ➤ Catalysis and reaction engineering                | ➤ Process safety management                             |
| ➤ Chemical engineering fundamentals                 | ➤ Process system, instrumentation and control           |

## Submission of extended abstracts

The organizing committee invites extended abstracts not exceeding 1000 words clearly mentioning the title (Times New Roman 14 bold) and names of the authors (Times New Roman 12) and their affiliations including the email id, mobile number and postal address (Times New Roman 10).

Please strictly follow the format given below when sending your abstract(s) to us.

- Abstracts in MS-word format (compatible version) (Times New Roman 12)
- Do not include tables or figures in the abstract; Include two or three references

### Reference style

Text: All citations in the text should refer to:

1. Single author: the author's name (without initials, unless there is ambiguity) and the year of publication;
2. Two authors: both authors' names and the year of publication;
3. Three or more authors: first author's name followed by 'et al.' and the year of publication

For book:

Levenspiel O. Chemical reaction engineering. Singapore: John Wiley and Sons (Asia) Pvt. Ltd.;1991.

For book chapter:

Mullai, P., Yogeswari, M.K., Estefanía Lopez, M., Eldon, R.R., 2016. Fermentative biohydrogen production from wastewaters: An exploration for sustainable green energy. In: Ngo, H.H., Guo, W., Surampalli, R.Y., Zhang, T.C. (Eds.), Green Technologies for Sustainable Water Management. American Society of Civil Engineers, pp. 829–865.

For journal:

Mullai, P., Vishali, S., Sabarathinam, P.L., 2018. Biogas production kinetics in an anaerobic multiphase hybrid reactor treating antibiotic industry wastewater. Desalin. Water Treat. 122, 247–253.

- Use the following format for the names of authors: first name, initials of middle name, last name
- Include 4 to 6 keywords below the abstract
- Indicate (\*) for the name of the corresponding author and (\*\*) for the presenting author.
- Send your abstracts to [cbsdauchem@gmail.com](mailto:cbsdauchem@gmail.com) on or before 10<sup>th</sup> January 2025.

