

CONFERENCE HIGHLIGHTS

- ❖ Bio Chemical Engineering ❖ Microbial Biotechnology ❖ Genomics and Proteomics
- ❖ Bioprocess Engineering ❖ Bioseparation Engineering ❖ Enzyme Engineering ❖ Environmental Biotechnology
- ❖ Biotechnology in Tissue Engineering ❖ Biomedical Engineering and Instrumentation
- ❖ Nano Biotechnology ❖ Pharmaceutical Biotechnology and Drug Design ❖ Fermentation Technology
- ❖ Plant and Animal Biotechnology ❖ Energy, Environment and Bioremediation
- ❖ Cancer Biology and stem cell research ❖ Bioinformatics and Computational Biology
- ❖ Process optimization using, AI, ML Techniques

SUBMISSION OF ABSTRACT

- ❖ Research papers are invited relevant to the themes mentioned above for oral presentation with the following specifications
- ❖ A4 size, MS word, Times New Roman and font 12 with line spacing 1.5 and abstract not exceeding 250 words. Full address, designation, phone number and e-mail of the participants must be clearly indicated, The name of the presenting author should be underlined.
- ❖ Awards will be given to best oral presentations, Certificates will be provided for all the registered participants.
- ❖ Authors are requested to submit the abstract and full paper after acceptance of abstract to bees2023conference@gmail.com
- ❖ All the selected paper will be published with ISBN number in the conference proceeding.

IMPORTANT DATES

Last Date for Abstract submission	: 14.02.2023
Intimation of Acceptance	: 15.02.2023
Last Date for Registration	: 16.02.2023
Last Date for submission of full paper	: 17.02.2023

REGISTRATION FEES

The Registration fee should be sent through Demand Draft drawn in favour of "The Registrar, Annamalai University" payable at Annamalai Nagar – 608002.

Faculties / Industrial Professional / R&D Institution	- Rs.1000/-
Research Scholars / Project Fellow	- Rs.750/-
PG Students	- Rs.500/-

ADDRESS FOR CORRESPONDENCE

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Associate Professor

Coordinator - BEES - 2023

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General Instructions:

- 1. Registration deadline:** The last date to receive an online application for registration (Google Form) is 17.02.2023 and there is no spot registration. Selection will be intimated by E-Mail.
- 2. Target Audience:** Industry professionals, Scientists, Faculty members working in Universities, Engineering, Polytechnic and Science Colleges, and PG Students and Research Scholars with relevant backgrounds in Sciences, and Engineering can participate in this conference. A maximum of 75 participants are allowed to participate and confirmation is on a first cum first serve basis.
- 3. Accommodation :** Accommodation will be provided for external participants based on their request in the Guest house/ Hostel located on the University Campus on twin sharing basis at their own cost and there is no TA/DA to the outstation participants (On campus, limited accommodation is available at the University Guest house/hostels on sharing basis @ Rs.600/- per day (2persons, Non-A/C), Rs.1200/- per day (3 persons, A/C).
- 4. Conference Package:** E-Book for Conference Proceedings of BEES - 2023, Participation Certificate, Program kit, working lunch and high Tea will be provided.

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Two day National Conference
on

BIOENGINEERING AND ENVIRONMENTAL SAFETY

BEES - 2023

24th - 25th February 2023

Coordinators

Dr. M. Vijay
Dr. R. Jayakumar
Dr. R. Palaniraj

Organized by

Department of Chemical Engineering
Faculty of Engineering and Technology
Annamalai University

ANNAMALAI NAGAR – 608002

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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. In 1928, Rajah Sir S. R. M. Annamalai Chettiar agreed with the local Government to handover the above said institution for establishing a University. Thus, on 01.01.1929 Annamalai University was established as per Annamalai University Act 1928 (Tamil Nadu Act 1 of 1929). 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 2022. "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 12th in India. In the Medical Category the ranking is 35th "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

ADVISORY COMMITTEE

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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 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 23rd based on the number of publications and 7th 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 9th in Tamil Nadu and 29th 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.

Faculty of Engineering and Technology

The Faculty of Engineering and Technology (FEAT) was established the year 1945, as the second Engineering College of the then composite Madras State. The FEAT celebrated its Golden Jubilee in the Year 1996 and Diamond Jubilee in the year 2005. The FEAT has 11 department of study namely Chemical Engineering Civil, Civil & Structural, Mechanical, Manufacturing, Electrical, Electronics & Instrumentation, Electronics & Communication, Computer Science & Engineering, Information Technology and Pharmacy.

Department of Chemical Engineering

The Department of Chemical Engineering, Annamalai University is a DST-FIST sponsored Department. The Department offers B.E. (Chemical Engineering), M.E. (Chemical Engineering) M.Tech (Food Processing Technology) and Ph.D., (Chemical Engineering) (Industrial Safety Engineering) (Industrial Biotechnology) Programs. The department has received research grants to the tune of 2.5 crores from various funding agencies like DST, DBT, UGC, Ministry of Food Processing and Ministry of Environment & Forests.

RUSA - Revolutionizing Higher Education In India

The **Rashtriya Uchcharat Shiksha Abhiyan (RUSA)** is the central government's contribution to further the promise held by the rich expanse of India's state universities. The country's future lies in empowering these campuses with all that it takes to enhance learning, better research and promote innovation. A centrally sponsored scheme, RUSA understands that sometimes the most important lessons of life are learnt outside the classroom. So whether it is upgrading libraries or computer laboratories, promoting autonomous colleges or clubbing them to consolidate their strength and forming cluster universities, this

programme realizes that every institution holds the power to enrich lives through top-class education with universities, to prepare universe-ready scholars.

ABOUT BEES - 2023

Bio-Engineering or Biological Engineering is a rapidly developing field which use the principles of biology and employs knowledge and expertise from applied sciences, such as mass and heat transfer, kinetics, biocatalysts, biomechanics, bioinformatics, separation and purification processes, bioreactor design, surface science, fluid mechanics, thermodynamics, and polymer science. It is used in the design of medical devices, diagnostic equipment, biocompatible materials, renewable bioenergy, ecological engineering, agricultural engineering, and other areas that improve the living standards of societies. Bioengineers can apply their expertise to other applications of engineering and biotechnology, including genetic modification of plants and microorganisms, bioprocess engineering, and biocatalysis. In recent years, Biotechnology provides a plethora of opportunities for effectively addressing issues pertaining to the monitoring, assessment, and treatment of contaminated water, air, and solid waste streams.

Environmental Safety includes policies and procedures for environmental management, ensuring compliance with Central, State and local laws, regulatory guidelines and industry standards. Environmental Safety deals with environmental protection that is aimed at reducing risks to the environment from contaminants such as hazardous materials and wastes, fuels, and oils. These programs address pollution prevention measures and regulatory compliance by providing procedures for safely working with these materials, inspecting the storage vessels and locations, and designating preventative maintenance procedures. Also included are environmental emergency plans, which provide the appropriate actions to be taken in the event of a spill or release. Environmental Safety serves technical support, regulatory reporting, training, and auditing of operational practices. A safe place to work is the key element of environmental safety. **BEES - 2023** aim to update and share the knowledge and also exchange of ideas, research, experience, and best practices in the field of bioengineering and environmental safety.