ALAGAPPA UNIVERSITY

(A State University Established in 1985)
Karaikudi - 630 003. Tamil Nadu, India.

2017 — Accredited with A+ Grade by NAAC (CGPA : 3.64)
2018 — Graded as Category-1 & Granted Autonomy
2018 — Swachh Campus Rank : 4
2023 — NIRF Rank : 30
2023 — THE World University Rankings — World Ranking Bandwidth 501 – 600
2024 — QS University Rankings — Indian Rank : 32, Southern Asia Rank : 59

Department of Bioelectronics and Biosensors

organizes

Two-day Regional Workshop on

Nanomaterials Driven Advances in Chemical and Biosensors

(NANOSE-2024)

Date : 4th & 5th April 2024 **Venue : Science Campus, Alagappa University**

ORGANIZING COMMITTEE

Chief Patron
Prof. G. Ravi,
Vice-Chancellor, Alagappa University
Co – Patron
Prof. A. Senthilrajan,
Registrar, Alagappa University
Convener
Prof. C. Sekar, *Alagappa University*
Organizing Secretaries
Dr. V. Dharuman & Dr. J. Wilson,
Dept. of Bioelectronics and Biosensors
Alagappa University

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Prof. V. S. Vasantha, Madurai Kamaraj University
Dr. S. Vasudevan, CSIR-CECRI, Karaikudi

REGISTRATION

The maximum number of participants for this workshop is limited to 50 only. **Hence, interested Students / Research Scholars / PDFs are encouraged to register on or before 28th March 2024.**

A nominal amount of Rs. 250/- per participant shall be charged to meet out the cost of refreshment and lunch. The payment can be made directly at the registration desk on 4th April 2024 between 9-10 am.

ACCOMMODATION

Accommodation will be arranged in the guest house/hotels upon request on payment basis.

All correspondence should be addressed to

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Alagappa University

The University has emerged from the galaxy of institutions initially founded by the great philanthropist and educationist Dr. RM. Alagappa Chettiar in the year 1985 at Karaikudi. The University is accredited with 'A+' Grade by NAAC. New innovative courses of scientific and social relevance are being offered through regular, distance and online modes. The University has obtained Category "I" status by the MHRD and occupies 2nd place out of the 12 State Universities. It has secured 30th position among Universities in National Institutional Ranking Framework (NIRF) 2023 ranking. Adding to its glory, the University has reached global recognition with the coveted TIMES World Universities Rankings 2023 in the bandwidth of 400-500.

Department of Bioelectronics and Biosensors

Department of Bioelectronics and Biosensors was established in the year 2008 with the objectives to promote interdisciplinary research and innovation in the chemo-bio-sensing processes and devices for the fast, selective and sensitive evaluation of molecules for applications in the fields of clinical, medical, environmental and food industries. The Department offers a PG programme in M.Sc. in Materials Science and Ph.D. programmes in the fields of Materials science, Bioelectronics and Biosensors.

Theme of the workshop

The quest for novel functional materials and their tailored modifications for sensor applications in biomedical, agricultural, automobile, food and environmental monitoring is swiftly gaining traction within the scientific and engineering communities. This surge is driven by the imperative to innovate, comparing and contrasting with existing sensor technologies, and pioneering novel solutions hitherto unexplored. In recent years, the spotlight has increasingly turned towards nanomaterials-based chemo-biosensors lauded for their simplicity, enhanced sensitivity, cost-effectiveness, and portability. This proposed workshop endeavours to furnish a dynamic forum wherein researchers, professionals, and entrepreneurs can convene to glean insights into the latest advancements in nanomaterials and sensor technologies, thereby fostering collaborative actions towards impactful innovations.

LIST OF SPEAKERS


Prof. R. Jayavel,
Dean, ACTECH, Anna University
Two Dimensional Functional Nanostructures for Sensor Applications


Prof. R. Ilangovan
University of Madras
Exploring rGO-Based Nanocomposites for Enhanced Electrochemical Biosensor


Prof. V. S. Vasantha
Madurai Kamaraj University
Role of nanomaterials in the development of electrochemical Biosensors


Dr. J. Mathiyarasu
CECRI, Karaikudi
Recent advancements in electrochemical sensing strategies.


Dr. V. Ganesh
CECRI, Karaikudi
Multidisciplinary Approach for Healthcare Diagnostics: "Nano" at Play


Dr. A. Pandikumar
CSIR-CECRI, Karaikudi
Photoelectrochemical sensors for heavy metal detection


Dr. S. M. Senthil Kumar
CSIR-CECRI, Karaikudi
Porous Carbon-based material for sensing applications.


Dr. S. Senthil Kumar
CSIR-CECRI, Karaikudi
Wireless electrochemiluminescence: Fundamental and its application towards clinical analysis


Prof. R. T. Rajendra Kumar
Bharathiar University
MO/MS Heterojunction based room temperature chemical sensors


Dr. V. Murugan
CSIR-CECRI, Karaikudi
Role of Electrochemical (Bio)sensors in precision diagnostics


Prof. C. Sekar
Alagappa University
Metal oxide based electrochemical sensors for food quality assessment


Dr. V. Dharuman
Alagappa University
Detection of DNA biomolecules at modified electrode


Dr. J. Wilson
Alagappa University
Polymer Composites for Biosensors and Environmental Monitoring