

DEPARTMENT OF PHYSICS

St. JOSEPH'S COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI.

in association with

INDIAN SPECTROPHYSICS ASSOCIATION

Organizes

International Conference on Current Research and Advancements in Materials Science and Spectroscopy

FEBRUARY 10-11, 2023



Focus of the Conference

International Conference on Current Research and Advancements in Materials Science and Spectroscopy (ICCAMS – 2023) is organised by the Department of Physics, St. Joseph's College in collaboration with ISPA. The conference aims to proclaim knowledge and share new ideas amongst the professionals and students from research areas of Spectroscopy, Crystallography, Biophysics, Medical Physics, Molecular Dynamics, Materials Science, Crystal Growth and Nanotechnology to share their research experiences and indulge in interactive discussions and technical sessions at the event. The Conference will also have a space for colleges/institutions to present their services, products, innovations and research results. The conference would create a platform for the scientists to interact with research scholars on the latest findings in their respective fields. The research papers of the conference intend to throw light on the application oriented innovative research in their respective fields.

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Focussed Areas

Spectroscopy
Crystal Growth
Crystallography
Bio Materials
Ceramic Materials
Drug Design
DFT Analysis

Luminescence Materials
Magnetic Materials
Molecular dynamics
Modelling & Simulation
MEMS Design
Nanotechnology
Nonlinear Optics

Optoelectronics
Surface Engineering
Sensor & Smart Materials
Superconductors
Semiconductors
Solar Cells
Transport Properties
Thin Films

INVITED SPEAKERS



Prof. Jiban Podder, Ph.D., F.B.A.S.

Professor, Department of Physics,
Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh



Prof. M. N. Ponnusamy, Ph.D., D.Sc.

Emeritus Professor, Centre for Advanced Studies in Crystallography and Biophysics,
University of Madras, Chennai



Prof. T. Pandiyan, Ph.D.

Professor, Faculty of Chemistry
National Autonomous University of Mexico (UNAM), Mexico



Prof. S. Gunasekaran, Ph.D., D.Sc.

President, ISPA and Dean, Research & Development
St. Peter's Institute of Higher Education and Research, Chennai



Dr. N. Ponpandian, Ph.D.

Professor & Head, Department of Nanoscience and Technology,
Bharathiar University, Coimbatore



Dr. C. Sekar, Ph.D.

Professor, Department of Bioelectronics & Biosensors
Alagappa University, Karaikudi



Dr. T. C. Sabari Girisun, Ph.D.

Assistant Professor, Department of Physics
Bharathidasan University, Tiruchirappalli

About the Institution

St. Joseph's is an Autonomous College of the Bharathidasan University, Tiruchirappalli, located in the central part of Tamil Nadu, South India. It was established in 1844 by the Society of Jesus (The Jesuits). The motto of the college is "For the Good and the True". The college celebrated its centenary in 1944, sesqui-centenary in 1995 and Dodransbicentenary in 2019. The college was recognised by UGC as a College with Potential for Excellence (CPE) in 2004 and 2014, NAAC has reaccredited the college at the highest A++ Grade (Cycle-IV) in 2019 and is ranked as 27th position in NIRF of 6th edition (2021) under college category. St. Joseph's is the only college in Tamil Nadu that has been awarded with Special Heritage Status by UGC. The college trains young men and women of quality to be leaders in all walks of life so that they serve the people of the Nation in truth justice and love. Accordingly, this college strives to be an agent of social change, by incorporating the scientific and technological growth in its UG, PG and Research (M.Phil/Ph.D) programmes.

About the Department

This Century-old Department of Physics started B.A. Physics (1881), B.Sc (Hons.) Physics (1911), B.Sc (1930), M.Sc Physics (1961), Ph.D. (1971) and M.Phil (1977). Other than its own evolution, it had given birth to two departments, Computer science (1983) and Electronics (1993) in the college. To cater the needs of the students, BSc and MSc (Physics) programmes in Self-financing section (shift II) were established in 1982 and in 2004 respectively. Presently there are 31 faculties and 9 non teaching staff in the department. The department is constantly developing with the continuous support of management and the funding of UGC, DST-FIST, DST-SERB, DRDO and CSIR. The department had established national and international collaboration in many fields of research in recent years and organises symposia and conferences periodically at all levels to ignite the students with scientific spirit. Over a period of 140 years, the alumni of the department have served and are still serving the nation in various capacities. Notable among them are Bharat Ratna, Dr APJ Abdul Kalam, the former President of India and Dr G N Ramachandran, an Indian Physicist who was known for his work, "The Ramachandran Plot" for understanding peptide structure, nominated for Nobel prize (Doctoral student of Nobel laureate Sir C. V. Raman).

About the ISPA

"Indian Spectro Physics Association (ISPA)" is a brain child of Veteran Professor and Scientist Dr. S. Gunasekaran. ISPA was started on April 23, 1998, it is a registered society under whose auspices, conferences, workshops and seminars are organized. ISPA is the peak of a strong belief that enlightening young minds and empowering them to pursue research through Spectroscopy. ISPA has an enviable record of having organized 18 International conferences and 22 National Conferences. ISPA also has organized 20 State Level Technical Seminars in Physical Sciences for PG and M.Phil. students, since 1999. Indian Spectrophysics Association (ISPA) finds its place in encouraging renowned and young scientists by honoring them with ISPA Awards in the recognition of the research findings of the scientists. 8 Veteran scientist Awards, 45 Life Time Achievement Awards and 75 ISPA Dr. S. Gunasekaran Awards are given to researchers who have made excellent contributions in the field of Research, during Conferences/ Seminars organized by ISPA.

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Awards

ISPA Veteran Scientist Award
ISPA Life Time Achievement Award
ISPA Dr. S. Gunasekaran Award
Best Oral Presentation Awards

Registration Details

Registration and payment can be done at the College website : www.sjctni.edu/ICCAMS2023/

PG Students	Rs. 300	Research Scholars	Rs. 600
Faculty Members	Rs. 800	Industry Person	Rs. 1000

Important Dates

Abstract Submission	: Jan. 25, 2023
Acceptance Notification	: Feb. 01, 2023
Last date for Registration	: Feb. 08, 2023
Full Paper Submission	: Feb. 20, 2023

Accommodation

The participants are requested to make their own arrangements for accommodation. A number of hotels are located in and around the campus.

Call for Papers

The authors intending to participate in this conference are requested to send their abstracts of their research findings within 250-300 words (MS Word, 12pts, Times New Roman with 1.5 line spacing) on all topics related to the focused areas to iccams2023@gmail.com on or before **25th January 2023**. The technical committee shall duly inform the oral presentation to the authors of the selected abstracts. Peer-reviewed articles will be published in Scopus indexed journal. Name of the journal shall be announced shortly.

For Communication

Dr. J. CHARLES

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