

NATIONAL CONFERENCE ON ADVANCED MATERIALS AND SPECTROSCOPY (NCAMS - 2024)

22 – 23 August, 2024



Organised by

Department of Physics
&

Department of Chemistry

DR. R. K. S. College of Arts and Science
Kallakurichi, Tamil Nadu

In association with

Indian SpectroPhysics Association (ISPA)
Chennai, India



About the Conference

NATIONAL CONFERENCE ON ADVANCED MATERIALS AND SPECTROSCOPY (NCAMS - 2024) is organised by the Department of Physics and Chemistry 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.

Focussed Areas

- Spectroscopy
- Bio Physics
- Drug Design
- Instrumentation
- Characterization Methods
- MEMS Design
- Optoelectronic Devices
- Superconducting Materials
- Transport Properties
- Theoretical Physics
- Crystal Growth
- Medical Physics
- DFT Analysis
- Luminescent Materials
- Molecular dynamics
- Nanotechnology
- Surface Engineering
- Semiconductor Materials
- Thin Film Technology
- Photocatalysts
- Crystallography
- Ceramic Materials
- Polymer Composites
- Magnetic Materials
- Modelling & Simulation
- Nonlinear Optics
- Sensor & Smart Materials
- Solar Technology
- Materials Science
- Nano Optics

Call for Abstracts

The Organizing committee invites original research papers for oral and poster presentation. Authors are requested to send the abstract not exceeding 300 words in the prescribed font (Times New Roman, Font - 12 points and 1.5 lines spacing) to the mail ncams2024@gmail.com on or before 20-08-2024. Papers will be accepted for presentation based on the recommendation of the panel of referees and the full length of the selected papers will be published in the proceedings with ISBN number. The full length paper will be published in Materials Today: Proceedings (Elsevier) on payment basis.

Last date for Abstracts submission : 15th Aug 2024
☑ Acceptance of Abstracts : 19th Aug 2024
☑ Date of Confirmation : 20th Aug 2024

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DR. J. AHAMED SULTHAN

Head, Department of Chemistry.

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About the College

DR. R. K. Shanmugam College of Arts and Science was established in 1997 by DR. R. K. Shanmugam Educational Trust that was initiated by great ideological and service minded Doctors, Engineers and Industrialists with true vision and mission of giving culture oriented higher education to the needy students in the region of Kallakurichi and Kalvarayan Hills, Tamil Nadu. This was the first Co-education Institution when it was in Viluppuram District and since November 2019 it functions in Kallakurichi District, Tamilnadu. College crest is sacred combination of the Sun God, the ascending Garuda, the Book of Wisdom and Blossoming Lotus Flower. The College mantra slogan is "WE CAN". The College was incepted with the ambition of educating the rural & tribal and economically backward students who were only dreaming of higher education. The College started with 3 UG Programme but now it offers 8 PG Programme, 9 UG Programme and a Ph.D. Research Programme in Commerce. The vision of the College directors have come true with the outcome of more than 12000 first generation graduates. More to feel proud is the outcome of more civilized and disciplined citizens who are working in government post apart from MNC companies and Entrepreneurship at National and International level. The College is Permanently Affiliated to Annamalai University Chidambaram. Nationally Accredited by NAAC, Recognized u/s 2 (f) & 12 (B) By UGC and ISO 9001-2015 Certified Institution. Visit us as: www.rkscollege.com

About the Department of Physics

The Department of Physics was established in the academic year 2004-2005 with the aim of equipping students with the practical and research based knowledge in the field of physical science. The department has fulfilled the thirst of the student by fetching M.Sc., Programme in our college in the academic year 2014-2015. The Faculties are dynamic, dedicated, focused and highly motivated and also working consistently to take this department forward. We have well equipped laboratories for under graduate and post graduate courses. We have general lab and electronics lab separately for UG and PG students along with the department library. We are guiding final year PG students in doing research projects and the students are motivated to join the research field.

About the Department of Chemistry

The Department of Chemistry was established in the year of 2006-2007 with a view of imparting scientific knowledge among the students of rural areas. Our department has grown as PG department in the year of 2014-2015 under the regular stream. There are separate laboratories for both UG and PG students with the maximum safety precautions. The PG students also undergo their research work by using high quality apparatus and chemicals. The department is functioning with the qualified faculty members who are highly experienced in research activity. Faculty members are dedicating themselves to impart quality education to the students to meet the challenges of the fast growing field. Experts are invited from various universities and colleges to enrich the knowledge of our students in the subject by organizing seminars, workshops and conference.

About ISPA

Indian SpectroPhysics 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 16 International conferences and 18 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 honouring them with ISPA Awards in the recognition of the research findings of the scientists. 15 Veteran scientist Awards, 54 Life Time Achievement Awards, 84 ISPA Dr. S. Gunasekaran Awards, Dr. S. Mohan Awards, are given to researchers who have made excellent contributions in the field of Research, during Conferences/ Seminars organized by ISPA. An international consortium has been made with the Medical University of Sofia for a tune of 1000 crore for a research project, Visit www.ispa.org.in for more details. Annual and Life Team Membership forms can be availed from the website.

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**ISPA Life Time Achievement Award
Best Oral/ Poster Presentation**

Invited Speakers

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



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**Research Scientist (Grade II)
Photovoltaic Devices Laboratory
SSN Research Centre, SSN Institutions, Kalavakkam**

Dr. P. Janani, Ph.D.,



**Instructional Designer Head (Academics)
Echtian Contents Private Limited
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Branch - Thottiyam, Chinnasalem Tk.
Account Number - 1201155000048654
IFSC Code - KVBL0001201

Boarding and Lodging will be arranged only for outside participants on payment basis.

Registration Fee

Participants - Rs. 500
Research Scholars - Rs. 750
Faculty Members - Rs. 1000
Industry Persons - Rs. 1250