

26th NATIONAL SEMINAR ON CRYSTAL GROWTH AND APPLICATIONS (XXVI NSCGA-2024)

29-31, August 2024

Organized by

Department of Physics, Bharathidasan University, Tiruchirappalli – 620 024, Tamil Nadu, India

(NAAC ‘A+’ Grade – State University – NIRF Rank 41)

In Association with

Indian Association for Crystal Growth (IACG)



About Bharathidasan University

Bharathidasan University established in February 1982, and was named after the great revolutionary Tamil Poet, **Bharathidasan** (1891-1964). The motto of the University "**We will create a brave new world**" has been framed from Bharathidasan's poetic words "**புதியதோர் உலகம் செய்வோம்**". In addition to the administrative complex, which includes the Vice-Chancellor's Secretariat, Registrar's Office, Finance and Examination offices, most of the academic departments and research laboratories are located in the sprawling Palkalaiperur Campus. The academic units in the Palkalaiperur Campus are Schools of Mathematics, Physics, Chemistry, Life Sciences, Basic Medical Sciences, Geosciences, Social Sciences, Marine Sciences and the Schools of Languages. In addition, the Campus also has the Central Library, University Informatics Centre, Hostels, Staff Quarters, Health Centre, Canteen and others. The downtown campus at Khajamalai has the Departments of Social Work, Computer Science, Remote Sensing, Geology, Statistics, Women's Studies, Educational Technology, Lifelong Learning, the Malaviya Mission Teacher Training Centre and others. The University has totally 4 Faculties, 16 Schools, 39 Departments and 29 Specialized Research Centres. The University Departments/Schools are offering 151 programmes including 40 PG programmes in M.A., M.Sc. and M.Tech, 31 M.Phil., 33 Ph.D., 19 P.G. Diploma, 11 Diploma and 10 Certificates. In addition to the regular teaching programmes in the Departments and Schools, the University under its Distance Education mode is conducting 15 UG and 26 PG programmes.

About the Department

The Department of Physics was originally established in 1976 as a unit of the Autonomous Post-Graduate Centre of the University of Madras at Tiruchirappalli (the present Khajamalai Campus) and became part of Bharathidasan University in 1982, with Prof. P. K. Ponnuswamy as the founder Head of the department. Since its inception, the Department has demonstrated a strong commitment to research and teaching. In a short span of time, the Department established itself as a Centre of Excellence for research in the areas of Biophysics, Nonlinear Dynamics, and Crystallography. The Department of Physics has been under the umbrella of the School of Physics since 2005. It is recognized by UGC-SAP (DRS-II), DST-FIST (Level - I, Phase 2.0), and RUSA (R & I), Government of India. Over time, the department has expanded its research scope in other areas such as Complex systems, Bose-Einstein condensation, Computational Physics, Nonlinear Resonances, Crystal Growth and Thin Films, Superconductivity, Magnetism, Nanoscience, and Nanotechnology, Nonlinear Optics, and Nanophotonics. Besides its international reputation and excellence in research, the Department offers M.Sc. program in Physics and Ph.D. program in Physics, to train young graduate students in cutting-edge research topics.

About the Seminar

The National Seminar on Crystal Growth and Applications (NSCGA) is organized by Indian Association for Crystal Growth (IACG) in different cites of the country once in a year. The 25rd National Seminar on Crystal Growth and Applications (XXV NSCGA-2023) was held at Department of Physics, Alagappa University University, Karaikudi. The scientific deliberations at the seminar will cover a wide range of topics in Crystal Growth and Applications in the form of Invited Talks and Contributory Papers. The aim of this seminar is to bring scientific community and students together on a common platform to have discussion among them. In this seminar, the discussions will be based on the fundamentals of crystal growth to pave the way for high level technological applications and to motivate the young researchers. It is expected that Young Scientists, Research Scholars and Students will be greatly benefited and motivated by interacting with the renowned experts in the field.

Focused Areas

- Crystal Growth from Solution, Melt and Vapour

➤ Sankaranarayanan-Ramasamy (SR) method

➤ Nucleation and Theories of Crystal Growth

➤ Novel and Nonlinear Optical (NLO) Crystals

➤ Semiconductors and Optoelectronic Crystals

➤ Experimental Aspects of Crystal Growth

➤ Innovations in Crystal Growth
- Crystal Growth Instrumentation

➤ Characterization of Single Crystals

➤ Single Crystal Devices

➤ Modeling and AI in Crystal Growth

➤ Nano-Crystalline Materials

➤ Thin film Materials

➤ Thermoelectric Crystals

Abstract Submission

The abstract of papers should be one page long and include figures, tables, and references. The title of the paper should be in Times New Roman with the font size of 14 and the rest of the text in 12 font with 1.5 line spacing. The corresponding author's email should be indicated by an asterisk (*). The name of the author presenting the paper must be underlined. The abstract should be submitted in electronic format as an email attachment to nscga2024@gmail.com in MS Word Document.

Awards

- ❖ Dr. R. Gopalakrishnan National Award for Best Thesis in Crystal Growth
- ❖ Best Oral Presentation Award
- ❖ Best Poster Presentation Award
- ❖ Best Crystal Display Award

Registration Fees

PG & M.Phil. Students	: Rs. 1200/-	Faculty/Staff	: Rs. 2000/-
Research Scholars	: Rs. 1500/-	Foreign participants	: USD 300/-
Industry participants	: Rs. 3000/-		

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Mode of Payment

Through DD or Online transaction. The DD should be in favor of "CONVENER, NSCGA 2024" payable at Tiruchirappalli- 620 024. If the money is paid through Online transactions, please mention the Reference number in the registration form.

Accommodation: Accommodation shall be provided only to the outstation participants on prior request within the campus at nominal charges.

Financial Assistance: A few deserving participants will be provided financial assistance if funds are available.

Important Dates

Last date for Submission of Abstract	: 30-07-2024
Notification of Acceptance	: 01-08-2024
Last date for Registration	: 05-08-2024
Accommodation Requests	: 31-07-2024

Address for Communication



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Convener, XXVI NSCGA-2024

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