A National Level Workshop cum Faculty Development Programme on Computational Methods for Solving Chemical Problems

21st – 22nd February 2024

Organized by

Department of Chemistry
National Institute of Technology Tiruchirappalli
Tamil Nadu – 620015, India

Sponsored by

Chairman & HOD
Dr. V. M. Biju
Associate Professor

Convenor
Dr. Sunandan Sarkar
Assistant Professor

ABOUT THE INSTITUTE

Established in 1964 through a collaboration between the Indian and Tamil Nadu governments, the National Institute of Technology Tiruchirappalli (NIT Trichy) stands as a prestigious technical institute in Tamil Nadu, India. Renowned for academic excellence, NIT Trichy consistently attains high rankings among National Institutes of Technology (NITs) in the National Institutional Ranking Framework (NIRF-2023). The institute offers diverse programs in Science, Engineering, and Technology at the undergraduate, postgraduate, and research levels, with a commitment to providing high-quality education and contributing to the nation's technological progress through research and development activities.

ABOUT THE DEPARTMENT

The chemistry department of the National Institute of Technology was established in 1971 with a vision to become a world-class centre in Basic and Applied Chemistry. This department comprises eminent professors, conscientious researchers and talented students. It showcases state-of-the-art research facilities, advanced instruments, and impeccably equipped laboratories. The department is dedicated to delivering high-quality academic programs and conducting cutting-edge research initiatives. The department has consistently secured research funding from various agencies such as MHRD, DRDO, CSIR, DST, BRNS, and others.

SCOPE OF THE WORKSHOP

The workshop cum faculty development program aims to provide a comprehensive description of computational and theoretical methods and their applications. The participants from different research backgrounds can learn about the latest advancements in computational techniques for solving real-time chemical problems. Renowned Indian professors will deliver key lectures in this workshop. This workshop is open to faculties, scholars, and students from academic institutions and research labs. Participants from different backgrounds can also showcase their recent research work through oral or poster presentations and get feedback from our experts.

Invited Keynote Speakers

Day 1: 21.02.2024

Lecture 1: 10.30 am -12.00 pm

Title: *Concept of Densities and Density Functionals Across Different Length Scales*

Dr. Swapan K Ghosh
Distinguished Professor,
DAE, Centre for Excellence in Basic Science, University of Mumbai

Lecture 2: 12.00 pm -1.30 pm

Title: *Computational Modeling of Homogeneous and Heterogeneous Catalytic Reactions*

Dr. Swapan K Pati
Professor, Theoretical Sciences Unit, JNCASR, Bangalore

Lecture 3: 2.00 pm -3.30 pm

Title: *Finding Suitable Materials for Next-Generation Solar Cells*

Dr. K. Senthilkumar
Professor, Department of Physics, Bharathiyar University, Coimbatore

Day 2: 22.02.2024

Lecture 4: 10.00 am -11.30 am

Title: *DNA Nanotechnology: Current Status and Way Forward*

Dr. Prabal Kumar Maiti
Professor, Department of Physics, IISc, Bangalore

Lecture 5: 11.30 am -1.00 pm

Title: *Density Functional Theory and Its Applications*

Dr. V Subramanian
Visiting Faculty, Department of Chemistry, IIT Madras, Former Outstanding Scientist, CSIR-CLRI

Only 50 seats are available

Registration Fee details:
Faculties: Rs.1500/- only
Research Scholars: Rs.1000/- only
For Payment visit SBI collect link given below:
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Select the state as **Tamil Nadu** and category as **Educational Institution**. Choose **CONFERENCE and WORKSHOP NIT Trichy ,**Select payment category as **CHY SS CMFSCP 2024.** Save the receipt and upload in the registration form.
Registration link:
https://forms.gle/jwC2dNp3ES7xxQPX9
Last Date for registration: 15.02.2024
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