

**SENGAMALA THAYAAR EDUCATIONAL
TRUST WOMEN'S COLLEGE**

(AUTONOMOUS),
(Accredited by NAAC) /
(An ISO Certified Institution)

Sundarakkottai,
Mannargudi-614 016
THIRUVARUR (DT), TAMILNADU.

Web site: www.stet.edu.in

Phone: 04367 255423

National
Conference cum Workshop
On
"Determination of Three
Dimensional Structures of
Small and Macromolecules
using Single Crystal X-Ray
Diffraction"



Organized by
DEPARTMENT OF PHYSICS
&
DEPARTMENT OF CHEMISTRY
In Association with IQAC

Venue : Conference Hall,
Vivekanandham Block.
Date : 11.12.2023 to 15.12.2023
Time : 09.30 a.m

ORGANIZING COMMITTEE

Dr. V. Dhivaharan, M.Sc., D.E.M., Ph.D.,
CORRESPONDENT,
STET Group of Institutions

Dr. N. Uma Maheswari, M.Sc. Ph.D., B.Ed.,
PRINCIPAL,
S.T.E.T. Women's College (Autonomous)

CONVENOR

Dr. R. Rathi, M.Sc., M.Phil., Ph.D.,
Head and Associate Professor,
Department of Physics.

Co-CONVENORS

Mrs. S. Sujatha M.Sc., M.Phil.,
Head and Assistant Professor,
Department of Chemistry.

Dr. S. Manikandaselvi, M.Sc., M.Phil., Ph.D.,
Associate Professor,
Department of Bio Chemistry.

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Ms. M.Vidhya Sankari M.Sc., M. Phil.,	Ms. N.Priya M.Sc., M. Phil.,

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ADVISORY COMMITTEE

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Adirampattinam.

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Head &
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Tagore government Arts and Science
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RESOURCE PERSON

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Dr. V. Viswanathan,
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Dr. P. Karthe,
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Dr. R. Pachaiappan,
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School of BioEngineering,
SRMIST,
Kattankulathur, Chennai.

ABOUT THE INSTITUTION:

“Empowering women, Empowering the Nation”. Higher education, especially to women, empowers not only the family but also the Nation. Hence, higher education to women is often emphasized as a mission of capacity building of the Nation. The significance of this aspect has been rightly recognized and there has been a paradigm shift in the scenario of women education in the urban area. Nevertheless, higher education to women in the rural areas needs encouragement, as the main source of income of their parents is agriculture and the per capita income is relatively very low. In this context, “Sengamala Thayaar Educational Trust (STET) Women’s College” was established at Sundarakkottai, in Thiruvavur District, in the year 1994 by Shrimathi Krishnaveni Vivekanandham, who entrusted the task of nurturing the institution to her illustrious son Dr.V.Dhivaharan. as the correspondent of this esteemed institution with his inspiring and perseverant administration leading this institution towards excellence in empowering women in academic and research. The institution offers 12 UG, 13 PG, 5 M.Phil, 4 Ph.D and PG Diploma Programmes. Sengamala Thayaar Educational Trust Women’s College is recognized as one of the foremost educational institutions in India, affiliated to Bharathidasan University, Tiruchirappalli. It has been accredited by the NAAC and an institution of ISO 9001:2015 standards certified one. The institution has attained Autonomous in the year 2020. The Internal Quality Assurance Cell (IQAC) of the college is extremely active and evolves strategies and actions to achieve the goal of the institution.

ABOUT THE DEPARTMENTS:

The Department of Physics and Chemistry established UG Programmes in the year 2004 and PG Programmes in the year 2007. The departments have successfully graduated more than 1200(UG) and 600(PG) students, since its inception. The main objectives of the departments are to promote knowledge through research, both applied and conceptual relevant to science and technology and to disseminate such knowledge through publications. Intensive coaching is given for the students to achieve academic excellence. These departments consist of UG & PG separate laboratories with modern sophisticated equipments. The departments have been producing intellectually and scientifically advanced younger generation to shine in various fields. The departments organize Guest lectures, Workshops, Hands on training and Extension activities frequently. Our department students regularly received TNSCST projects.

ABOUT THE CONFERENCE:

The National Conference cum workshop with hands on training is aimed at bringing together the scientific community to share their knowledge in the recent trends on Determination of Three Dimensional molecules of small and macromolecules using Single Crystal X-Ray Diffraction. Eminent persons in the respective fields will share their knowledge and experience with the participant, which in turn is expected to promote research activities in advanced materials of Three Dimensional Structures of small and macromolecules. The conference will be extremely useful in the sense that it will be attended by Physicists, Chemists, Microbiologists and Industrialists making it a truly interdisciplinary research conference/ workshop on characterization of structure and other properties from macro to nano scale.

The various topics to be covered are

- Fundamentals of X ray Crystallography.
- Details of Direct Methods of solving the Phase problem and Determining the Molecular Structure - The Nobel Prize winning topic.
- Tutorials on Hand propagation of phases.
- Shelx suite for solving Molecular structures and Refinement.
- Introduction to Macromolecules
- Macromolecular Phasing Methods.
- Drug Discovery.
- Macromolecular structure determination live demonstration CCP4 Suite, WINGX Suite and Phase propagation

Participants should adhere to the following:

- The candidate should present on time along with their own laptops.
- Women participants only allowed.
- Working lunch will be provided .
- Accommodation shall be provided to outstation participants on prior request in STET campus at nominal rate.
- Limited to 100 Participants only.



Registration LINK
<https://forms.gle/KoU1852fx6N>
LrAgy9

National Conference cum Workshop On “Determination of Three Dimensional Structures of small and macromolecules using Single Crystal X-Ray Diffraction”

Registration Form

Name of the Participant :
Student / Research Scholar :
Institution Address :
Mobile Number :
E-mail id :

Details of Payment: Online/ G-Pay/ Cash

Amount :
Reference Number :
Date :
Bank Name :
Place :

ONLINE PAYMENT:

Net banking (RTGS/NEFT)
A/C Name: STET (W) College
Bank Name: State Bank of India
Branch : Paravakkottai
Account Number: 32539855708
IFSC: SBIN0007544