

Avinashilingam Institute for Home Science and
Higher Education for Women
Coimbatore – 641 043.

Workshop on X-ray Crystallography
16th March 2019

Registration Form

Name :

Designation:

Affiliation:

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E-mail ID

Contact No.:

Fee Payment Details

Fee : Rs.300

Mode of Payment: Cash/DD

Details of DD :

No.....

Bank Name.....

Date.....

Signature of Participant with Date

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Avinashilingam Institute for Home Science and Higher
Education for Women

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Department of Science and Technology, CURIE Project
Royal Society for Chemistry, South India Chapter

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Contact

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Avinashilingam Institute for Home Science and
Higher Education for Women

(Deemed to be University under Category "A" by MHRD, Estd. u/s 3 of UGC Act 1956)
Re-accredited with "A+" Grade by NAAC. Recognised by UGC Under Section 12 B
Coimbatore - 641 043, Tamilnadu, India.



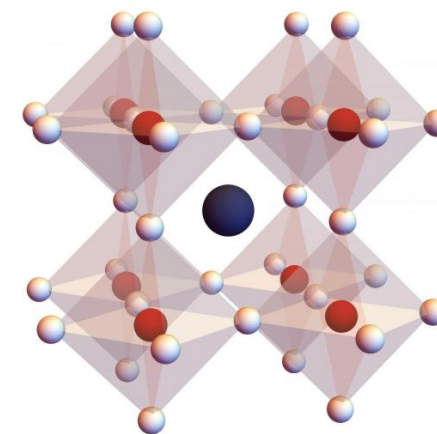
विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY



Department of Science and Technology and
Royal Society of Chemistry Sponsored

Workshop on X-ray Crystallography

16th March 2019



Organized by

Department of Physics

Avinashilingam Institute for Home Science and
Higher Education for Women
Coimbatore – 641 043.

www.avinuty.ac.in

The Institute

Avinashilingam Institute for Home Science and Higher Education for Women was established in the year 1957 by the great patriot and philanthropist Padma Shri Dr. T.S.Avinashilingam Ayya to impart higher education for women on par with global standards. Established with the noble vision of facilitating self development and empowerment of women through modern, scientific and value based education to enable them lead a purposeful life filled with moral and spiritual values, the institution, since its inception has richly contributed towards the generation of finest human resource with the essential qualities as demanded by the society and the nation at large. The Institute was declared as Deemed-to-be-University in the year 1988, in recognition of its meritorious contributions to the society. Rightfully upholding the ideals of Sri Ramakrishna Paramahansa, Annai Saradamani Devi, Swami Vivekananda and Mahatma Gandhi, the university has grown enormously and has been continuously nurtured to its present height by great visionaries such as Bharat Ratna C.Subramaniam, Dr. Rajammal P. Devadas, Dr.K. Kulandaivel, Sri T.K. Shanmuganandam, Dr.T.S.K.Meenakshisundaram and at present is marching ahead under the chancellorship of Padma Shri Dr.P.R.Krishnakumar. The Institute imparts higher education under the Schools of Physical Sciences and Computational Sciences, Home Science, Biosciences, Arts and Social Sciences, Education, Commerce and Business Administration and Engineering.

The institute is actively engaged in research and has memorandum of understanding with foreign and national institutions, industries and government, industry funded projects are being executed from time to time. Community outreach and extension activities are undertaken in order to take the essence of higher education to society. National Assessment and Accreditation Council has accredited the institute with "A+ Grade".

Department of Physics

The Department of Physics was established in the year 1957 and has grown leaps and bounds from then on and at present the department has well qualified human resource and well equipped laboratories. Promotion of Physical sciences through effective teaching has been the primary objective of the department and it has the credit of producing many women physicists and educationalists. The department is actively engaged in research and has received grants from governmental organizations such as UGC, DST, DRDO and established industrial collaborations in the recent past.

The Workshop

In this era of miniaturization the science and technology of materials acquires paramount importance. Driven by the unique yet multifaceted functionalities and brilliant characteristics exhibited by materials, analysis of structure of materials and elucidation of structure – property relations of materials has gone far and wide and expected to scale much greater heights in future. At this juncture it is essential to understand significance of X-ray crystallography in material characterization. To shed some light on the theme, the **DST-CURIE** and **Royal Chemical Society Sponsored Workshop** on "X-ray Crystallography" is being organised.

Bharat Ratna Dr. C.N.R. Rao Research Centre in the institute has X-ray Diffractometer functioning, since the year 2011.

Workshop Themes

- Significance of X-ray Crystallography in Material Characterization
- Rietveld Refinement (Tutorial Session)
- Crystal structure of Biomolecules

Resource Persons

Prof. A. Sundaresan

Chemistry and Physics of Materials Unit (CPMU)
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore

Basics of X-Ray Powder Diffraction and Its Applications

Prof. Nalini G. Sundaram

Poornaprajna Institute of Scientific Research, Bangalore

The Rietveld Method: Strategies for Refinement

Dr. Diptikanta Swain

Solid State Structural Chemistry Unit
Indian Institute of Science, Bangalore

Tutorial on Rietveld analysis using Fullprof software

Prof. C. Sudarsana Kumar

School of Pure and Applied Physics
Mahatma Gandhi University, Kottayam

X-ray diffraction data analysis and Molecular Imaging

Dr. K. Gunasekaran

Department of Crystallography and Biophysics
University of Madras, Chennai

X-ray Crystallography: Techniques for Analysis of Biomolecules

Participants

Research / M.Phil. Scholars, Post graduate students and academicians from the disciplines of Physics, Chemistry, Materials Science and Biosciences are expected to attend the workshop.

Registration Fee : Rs. 300

The participants are requested to register for the workshop at the earliest and not later than 14th March 2019. The number of participants is limited and will be registered on first come first served basis.

Participants may also have a demonstration session on recording of X-ray Diffraction Pattern.

Interested Participants may bring their own laptop for more purposeful sessions.