

Programme

**Two-day National Level Workshop on Advances in Condensed Matter Physics
with special emphasis on Biological Systems for Faculty Development**

(Sponsored by DBT, Govt. of India)

Organized by

Dept. of Physics, St. Xavier's College (Autonomous), Kolkata

Day 1: December 9th (Friday), 2016

Registration : 9AM

Session I (Inauguration): 10 AM – 10.20 AM

10.00 AM: MC announces the arrival of the dignitaries and calls them to stage: Opening Song

10.05 AM: Welcome address by HOD Physics

10.10 AM: Fr. Principal's address

10.15 AM: Vote of Thanks

10.20 AM – 10.30 AM: Tea Break

Session II: 10.30 AM – 1 PM

10.30 AM – 12.00 Noon:

Lecture 1 - Keynote Address: Prof. Sumantra Chattarji, National Centre for Biological Sciences (NCBS), Tata Institute of Fundamental Research, Bangalore.

Title: "To be or not to be afraid"

12.00 Noon – 1.00 PM:

Lecture 2 - Prof. Gautam Basu, Head, Department of Biophysics, Bose Institute, Kolkata.

Title: “Simple Physical Models for Complex Biological Processes”

1.00 PM – 2.00 PM: Lunch Break

Session III: 2.00 PM – 4.00 PM:

2.00 PM – 3.00 PM:

Lecture 3: Prof. Debnarayan Jana, Department of Physics, University of Calcutta.

Title: “Application of Density Functional Theory in Material Science”

3.00 PM – 4.00 PM:

Workshop - Prof. Debnarayan Jana, Department of Physics, University of Calcutta.

Topic: “Demonstration of some DFT softwares for Designing New Materials”

4.00 PM: Tea & End of the Days Programme

Day 2: December 10th (Saturday), 2016

Session IV: 10.30 AM - 1.00 PM

10.30 AM - 11.30 AM:

Lecture 4 – Prof. Sangram Bagh, Department of Biophysics and Structural Genomics, Saha Institute of Nuclear Physics (SINP) , Kolkata.

Title: “The Living Cell: The Ultimate Programmable “Soft Condensed Matter” ”

11.30 AM – 11.45 AM: Tea Break

11.45 AM – 12.45 PM:

Lecture 5 - Dr. Anandamohan Ghosh, Department of Physics, Indian Institute of Science Education and Research (IISER), Kolkata.

Title: “The Problem of Neuronal Coding”

12.45 PM– 2.00 PM: Lunch Break

Session V: 2.00PM – 4.30PM:

2.00 PM – 3.00 PM:

Lecture 6 - Prof. Shyamal Saha, Department of Material Science, Indian Association for the Cultivation of Science (IACS), Kolkata

Title: “2D Materials: A Great Discovery for Technological Advancement”

3.00 PM – 4.00 PM:

Workshop: Prof. Shyamal Saha, Department of Material Science, Indian Association for the Cultivation of Science (IACS), Kolkata

Topic: “Magnetic Measurements and Analysis of Low Dimensional Materials for Spintronic Application”

4.00 PM – 4.15 PM: Feedback Session & Valedictory

Venue: Fr. D’Souza Hall (Room No 15)

National Advisory Committee

- 1. Rev Fr. Dr. J Felix Raj, Principal, St. Xavier's College (Autonomous), Kolkata**
- 2. Prof. D N Bose, Visiting Professor, Dept. of Physics, St. Xavier's College (Autonomous) & Formerly Dean, IIT Kharagpur**
- 3. Prof. Indrani Bose, Emeritus Scientist, Bose Institute, Kolkata**
- 4. Prof. Samit Kumar Ray, Director, S N Bose National Centre for Basic Sciences, Kolkata**

Local Organizing Committee

- 1. Dr. Soma Ghosh, Head, Department of Physics, Convener**
- 2. Dr. Subhankar Ghosh, Department of Physics, Jt. Convener**
- 3. Prof. Gayatri Banerjee, Department of Physics, Asst. Convener**
- 4. Dr. Tapati Dutta, Department of Physics, Dean of Science**
- 5. Prof. Shalabh Agarwal, Head, Department of Computer Science**
- 6. Dr. Indranath Chaudhuri, Department of Physics**