



**On the Occasion of 125<sup>th</sup> Birth Anniversary of  
Satyendra Nath Bose**

**Bose Tagore National Advanced Workshop on  
“Recent Advances in Condensed Matter Physics:  
Theory and Experiment”  
(NAWCMP - 2018)  
August 3–4, 2018  
Visva-Bharati  
A Central University  
(An Institute of National Importance)  
Santiniketan, West Bengal, INDIA**

Organized by  
**Department of Physics  
Visva-Bharati, Santiniketan, India**

in association with  
**S.N. Bose National Centre for Basic Sciences, Kolkata**

**Conference website: [www.bosetagoreworkshop.net.in](http://www.bosetagoreworkshop.net.in)**

Prof. S. N. Bose is one of the eminent scientists of 20<sup>th</sup> century and was the pioneer of quantum statistics of indistinguishable particles. The classes of particles obey Bose-Einstein's statistics were named after Bose called 'bosons'. Prof. Bose works remain contemporary in different branches of physics. The pioneering idea of Bose motivates the researchers worldwide and various new experimental findings such as, 'Bose-Einstein's condensation' to 'Higg's boson' carry the signature of his baronial idea. The year 2018 is the 125<sup>th</sup> birth anniversary of such a noble Indian scientist of international repute. Prof. Bose was former vice-chancellor of our university 'Visva-Bharati' – Tagore's dream institute. Rabindranath Tagore dedicated his only book on science, 'Visva-Parichoy' to S. N. Bose. Visva-Bharati delivered the highest honour 'Desikottama' to Prof. S. N. Bose.

To commemorate the great occasion of 125<sup>th</sup> birth anniversary of Prof. S N Bose in the department Physics, Visva-Bharati, we are going to organize a national workshop on the recent advances in the field of condensed matter physics.

We are glad to invite you to participate in Bose Tagore National Advanced Workshop on “Recent Advances in Condensed Matter Physics: Theory and Experiment” (NAWCMP - 2018) to be held during 3–4 August, 2018 at Visva-Bharati, Santiniketan, India organized by department of Physics, Visva-Bharati in association with S. N. Bose National Centre for Basic Sciences, Kolkata. The workshop will facilitate nationwide noted scientists and technologists to share their contributions in the recent development of condensed matter physics. You too are cordially welcome to join this conglomeration, NAWCMP-2018 by sending your scientific contribution or as a registered participant.

**Organisers:**

**Patron in Chief:**

Prof. Sabujkoli Sen, Vice-Chancellor, Visva-Bharati

**Patron:**

Prof. Sukanta Kumar Sen, Principal, Siksha-Bhavan (Institute of Science), Visva-Bharati

**Chief Guest:**

Prof. Samit Kumar Ray, Director, S. N. Bose National Centre for Basic Sciences

**Joint Convenors:**

Dr. Rajkumar Singha

Dr. Swapan Kumar Mandal

Department of Physics, Visva-Bharati, Santiniketan-731235

**Joint Secretary:**

Dr. Sudipta Das

Dr. Amitava Bandyopadhyay

Department of Physics, Visva Bharati

**Treasurer:**

Mr. Aditya Sow Mondal,  
Department of Physics, Visva Bharati.

**National Advisory Committee:**

Prof. Santanu Bhattacharya, Director, IACS, Kolkata  
Prof. Anjan Barman, SNBNCBS, Kolkata  
Prof. Veeturi Srinivas, Dept. of Physics, IIT-Madras  
Prof. Basab Chaudhuri, Vice-Chancellor, West Bengal State University  
Prof. Anushree Roy, Dept. of Physics, IIT-Kharagpur.  
Prof. Pathik Kumbhakar, Head, Physics, NIT-Durgapur  
Prof. Jitendra Nath Roy, Dean of Science, Kazi Nazrul University  
Prof. Ananthkrishnan Srinivasan, IIT- Guwahati  
Dr. Dibyendu Bhattacharyya, BARC, Mumbai  
Dr. S. M. Yusuf, BARC, Mumbai  
Prof. Pabitra Kumar Chakrabarti, Physics, The University of Burdwan

**Local Organizing Committee:**

Prof. S. Mandal, Head of Department of Physics, Visva-Bharati (Chairman)  
Prof. T. Chattopadhyay, Department of Physics, Visva Bharati  
Prof. S. Chakrabarty, Department of Physics, Visva Bharati  
Prof. M. Maity, Department of Physics, Visva Bharati  
Prof. A. Sengupta, Department of Physics, Visva Bharati  
Prof. T. K. Kundu, Department of Physics, Visva Bharati  
Prof. A. Bhattacharjee, Department of Physics, Visva Bharati  
Prof. P. K. Ghosh, Department of Physics, Visva Bharati  
Dr. S. Sil, Department of Physics, Visva Bharati  
Dr. B. C. Gupta, Department of Physics, Visva Bharati  
Dr. A. Saha, Department of Physics, Visva Bharati  
Dr. A. Chakravarty, Department of Physics, Visva Bharati  
Dr. B. Raychaudhuri, Department of Physics, Visva Bharati  
Dr. B. Mukherjee, Department of Physics, Visva Bharati  
Dr. S. Roy, Department of Physics, Visva Bharati  
Dr. B. Pandey, Department of Physics, Visva Bharati  
Dr. A. Chakroborty, Department of Physics, Visva Bharati  
Dr. S. K. Majee, Department of Physics, Visva Bharati  
Mr. S Tudu, Department of Physics, Visva Bharati

**Scope of the Conference:**

(The themes of interest include the following but are not strictly limited to)

1. Condensed matter physics (theory and experiments): B. E. Statistics, superconductivity, low temperature phenomenon, topological insulators.
2. Materials Science: Novel materials, energy and storage materials, optical materials, low dimensional systems.
3. Materials Chemistry: synthesis of novel materials and characterization.
4. Nanoscience and Nanotechnology: Fabrication of devices at nanoscale, novel devices using materials at the nanoscale.

5. Bio-Nanotechnology: Drug delivery, Bio medical applications of nanomaterials.
6. Electronic Materials: Fabrication of electronic devices.
7. Device Physics: Physics of novel devices.

## Call for Papers

Abstracts for oral/poster presentations are invited from faculty members, and research scholars from Physics, Materials science, Chemistry, Solid state electronics, Life science and from industry people for the above mentioned workshop to be held in the Department of Physics, Visva-Bharati during August 3-4, 2018. Abstract should be in one page A-4 paper with 1" margin on all sides, single column, singly spaced written in 12 point Times New Roman font in MS-Word format. Title of the paper should be typed in bold letters. The name of the presenting author has to be underlined and 4-5 keywords are to be mentioned. Authors should send the abstracts by email mentioning appropriate topic of the workshop along with designation, contact address, telephone/mobile number to [arwcondensed2018@gmail.com](mailto:arwcondensed2018@gmail.com) within 30 June, 2018. No abstract will be accepted without prior registration.

## Important Dates:

**Last date of Registration: 30 June, 2018**

**Last date of Abstract submission: 30 June, 2018**

**Communication about selected abstracts: 15 July, 2018**

**Dates of conference: August 3-4, 2018**

## Details of Registration Fee, Travel and Local Hospitality:

### Registration

All participants of NAWCMP-2018 should get registered in advance by submitting **Registration Form** ONLINE along with the payment of registration fee by electronic transfer. Details are available in the website [www.bosetagoreworkshop.net.in](http://www.bosetagoreworkshop.net.in)

### Registration Fee

- Rs. 1500/- for the Faculty members
- Rs. 2500/- for people from the Industry
- Rs. 750/- for Research Scholar
- Rs. 250/- for Student participants
- Rs. 1500 for each accompanying Person

**No Registration will be allowed after 30<sup>th</sup> June, 2018**

## Accommodation

Accommodation of the registered participants will be provided in the University guest house/ hotels nearby conference venue. Request for accommodation may be made at the time of registration before 30<sup>th</sup> June, 2018 through conference website with advance payment for the entire duration of conference. Participants can also arrange their own accommodation independently.

## Travel Assistance

The participants have to make their own travel arrangement. Sleeper class train fare may be provided to Research scholars/student participants on production of their to and fro travel tickets. Request for financial assistance for research scholars should be forwarded through Supervisor or Head of the parent institution to convener of the national workshop before 15<sup>th</sup> June, 2018.

## Visva-Bharati, Santiniketan

Founded by Nobel Laureate Rabindranath Tagore in 1921, Visva-Bharati was declared to be a Central University and an Institution of National Importance by an Act of Parliament in 1951. The President of India is the Paridarsaka (Visitor) of the University, the Governor of West Bengal is the Pradhana (Rector), and the Prime Minister of India acts as the Acharya (Chancellor). The University was granted the status of a unitary teaching and residential university by a special Act of Parliament. For details see the website: [www.visva-bharati.ac.in](http://www.visva-bharati.ac.in).

## Department of Physics, Visva-Bharati

The department has vibrant teaching and research activities for more than 50 years. The department has both undergraduate and postgraduate teaching activities including various specialized courses like Condensed Matter Physics, Astrophysics and Cosmology, Nuclear Physics, Quantum electronics, High Energy Physics and Electronics. Presently, in theoretical physics, the faculty members are actively working on condensed matter physics, particle physics, scattering theory, many body interactions, super symmetric quantum mechanics, quantum optics, lattice dynamics, astrophysics, cosmology, etc. The areas covered by experimental research are microwave electronics, nuclear physics, condensed matter physics, nanoscience &

nanotechnology, thin film technology, molecular magnetism, Mössbauer spectroscopy, experimental particle and nuclear physics, molecular electronics etc. Several research projects were being carried out with support from different funding agencies, e.g., DST, DAE, AERB, UGC, CSIR, IUC, IUAC, etc. The Department has recently procured an X-Ray powder Diffractometer and established a huge computational facility laboratory under DST-FIST programme. Faculty members of the department are regularly publishing their research work in different international and national journals of repute. The department also regularly organizes various meetings, national and international conferences and workshops in various disciplines. The Department is an associate centre of the Theoretical Physics Seminar Circuit funded by S. N. Bose National Centre for Basic Sciences. Department is organizing almost two TPSC seminar on monthly basis by the eminent scholars, professors and industry peoples of various disciplines inviting them from the different parts of country and abroad.

## How to reach Visva-Bharati:

**Nearest Railway Station:** Bolpur station (roughly 150 km from Howrah station and takes about 2 and half-hours)

**Nearest airport:** Kolkata airport (164 km and takes about three hours)

## For any additional information and help, please contact:-

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**Website:** [www.bosetagoreworkshop.net.in](http://www.bosetagoreworkshop.net.in)