

### Local Organizing Committee

#### Patron

**Dr. A. K. Sharma**  
President, G.B., Darrang College

#### Chairman

**Dr. Joyshankar Hazarika**  
Principal, Darrang College

#### Co- Chairman

**Prof. Keshab Ch Borah**  
Department of Physics, Darrang College

#### Prof. Pradip Kr Baruah

Department of Physics, Darrang College

#### Convener

**Dr. Shyamalima Chowdhury**  
Asst. Professor, Department of Physics  
E-mail: shyamoli\_ma@yahoo.co.in

#### Co-Convener

**Dr. Simanta Hazarika**  
Asst. Professor, Department of Physics  
E-mail: simanta.3@gmail.com

### NATIONAL ADVISORY COMMITTEE

**Prof. A. Choudhury**, Tezpur University

**Prof. N. C. Mishra**, Utkal University

**Prof. S.N. Sahu**, NIST, Behrampur

**Prof. S. Bhattacharjee**, IOP, Bhubaneswar

**Prof. D.K.Choudhury**, PANE, Gauhati University

**Prof. A. Gohain Barua**, Gauhati University

**Prof. A. Kumar**, Tezpur University

**Prof. J. C. Dutta**, Tezpur University

**Prof. M. K. Nandy**, IIT, Guwahati

**Prof. M. K. Verma**, IITK, Kanpur

**Prof. U. Das**, Rajiv Gandhi University,  
Arunachal Pradesh

### Program

#### 30/01/2014

09.00 am	: Registration
09:30 am	: Inaugural Session
10.00 am	: Key Note Address
11.30 am	: Tea Break
11:30 am	: Invited Talk
12:30 pm	: Lunch Break
02.00 pm	: First Technical Session
03.00 pm	: Invited Talk
04.00 pm	: Tea

#### 31/01/2014

09:30 am	: Invited Talk
10.30 am	: Tea Break
11.00 am	: Second Technical Session
12:30 pm	: Lunch Break
02.00 pm	: Invited Talk
03.00 pm	: Third Technical Session
04:30 pm	: Tea

#### 01/02/2014

09:30 am	: Poster Session
11:30 am	: Valedictory Function

## NATIONAL SEMINAR ON CURRENT TRENDS IN PHYSICS RESEARCH (NSCTPR-2014)

30<sup>th</sup> January-1<sup>st</sup> February, 2014

*Sponsored by*



**University Grants Commission (NERO)**

*Organized by*

**DEPARTMENT OF PHYSICS**  
Darrang College, Tezpur-784001



*In collaboration with*



**Assam Science Society, Tezpur**

### AIMS AND OBJECTIVES

Physics is the most basic and fundamental science which deals with the study of natural phenomena occurring at different scales from attometer to light year. Most of the technological breakthroughs are the outcomes of purposeful application of Physics. In recent years extensive research work is going on basic physics as well as interdisciplinary areas like Nanotechnology, Non-linear dynamics, Molecular Physics, Biophysics, Materials science, Photonics etc. The novel work in these fields expands the knowledge base and also results in designing high resolution instruments for precise measurements.

The main objective of the seminar is to provide a platform for faculty members and young researchers to present their works in front of fellow researchers and distinguished experts of related fields and interact with them. This will develop better understanding of Physics, the participants will get national exposure and will be familiar with current research and developmental activities in Physics in national and international level. Also by organizing the seminar we intend to introduce UG level students to the fascinating world of Physics research and thus inspire them to study the subject with depth so that they can boost the world of Physics with their contributions in future. At last but not the least holding of such events will promote the academic atmosphere of the institution and the region.

### TOPICS TO BE COVERED

1. Low Dimensional Physics, 2. Instrumentation Techniques in Physical Sciences, 3. Environmental Physics, 4. Laser Physics, 5. Non-Linear Optics and Spectroscopy, 6. Smart Materials, 7. High Energy Physics and Cosmology, 8. Ultrafast Phenomena, 9. Non-equilibrium system and nonlinear Dynamics, 10. Interaction of radiation with matter, 11. Biophysics and other related topics.

### ABOUT THE COLLEGE

Established in 1945 Darrang College is a UGC affiliated under graduate college under Gauhati University. Situated at Tezpur, it is one of the premier most institutions of higher education in Assam which has carved a position for itself in the field of both education and research. It has strived forward with excellence towards promotion of quality higher education in this region.

### ABOUT THE DEPARTMENT

Admitted on all hands that the department of Physics, Darrang College, Tezpur has high degree of contribution to the advancement and dissemination of collegiate education in Assam since its very inception as back as 1947. With an objective of promoting higher education the degree courses were introduced in 1960 and in 1962 it got affiliation from

Gauhati University. In 1966 the university affiliated Physics as a major subject in undergraduate course. Since then the Department has all along been striving to impart quality education in Physics as per Gauhati University syllabus.

The faculty members of the department are actively involved in research activities. Two research projects funded by UGC have been completed and there is one ongoing project. The faculty members have published more than fifty research papers in peer reviewed journals of high impact factors.

### HOW TO REACH THE VENUE ?

Darrang College is situated at the heart of Tezpur town and is easily accessible by both road transport and air. It is only six km from the Tezpur Airport and 3 km from ASTC bus stand.

### CALL FOR PAPERS

The organizers cordially invite faculty members, research scholars and students to present their work on any of the topics of the seminar. Participants are requested to submit their abstracts (**MS word, Times New Roman, font size 12, 1.0 line spacing, justified, up to 200 words**) including title (**14, bold, centered**), name of author (s), author's affiliation (s) (**12, centered**) and email id (**10, centered**). The name of the presenting author must be underlined. One author should not submit more than two abstracts. **Abstract and full paper must be sent electronically to the convener, Dr Shyamalima Chowdhury, Department of Physics, Darrang College, Tezpur-784001, Dist-Sonitpur, Assam. Mob: 94355 63210 to the following E-mail Id, [nsctpr2014@gmail.com](mailto:nsctpr2014@gmail.com), on or before 10/12/2013.**

**All accepted papers will be published in peer reviewed proceeding bearing ISBN number.**

### REGISTRATION FEES

All participants must register by paying the following registration fees:

- |  |           |
|--|-----------|
| 1. Faculty members with paper :                                    | Rs. 1000/ |
| 2. Research Scholars with paper :                                  | Rs. 700/  |
| 3. Faculty members /Research Scholars/<br>Students without paper : | Rs. 500/  |
| 4. Participants from NGO's/Industrialist :                         | Rs. 1500/ |
- The registration fee covers seminar kits, book of abstracts, lunch and refreshments.

*The registration fees should be paid by DD, payable at SBI, Tezpur, in favour of "The Principal, Darrang College, Tezpur, Assam".*

### IMPORTANT DATES

<b>Last Date for Abstract Submission:</b>	<b>10.12.2013</b>
<b>Last Date for Full Paper Submission:</b>	<b>10.01.2014</b>
<b>Intimation of Acceptance:</b>	<b>10.01.2014</b>
<b>Last Date for Registration:</b>	<b>20.01.2014</b>

## UGC SPONSORED NATIONAL SEMINAR, NSCTPR

Organized by

30<sup>th</sup> January to 1<sup>st</sup> February, 2014



Registration form

Name : \_\_\_\_\_

Age : \_\_\_\_\_ Sex : M/F \_\_\_\_\_

Designation : \_\_\_\_\_

Department : \_\_\_\_\_

Name of the Institution : \_\_\_\_\_

Address for correspondence : \_\_\_\_\_

\_\_\_\_\_

Mobile No : \_\_\_\_\_

E-mail : \_\_\_\_\_

Contributing Paper : Yes / No

If Yes Title of Paper : \_\_\_\_\_

\_\_\_\_\_

Registration fee paid \_\_\_\_\_

By DD/Cash

DD No. \_\_\_\_\_ Bank \_\_\_\_\_

\_\_\_\_\_

Place

Date

Signature