



# Silapathar Science College

... think scientifically, ... act scientifically ...

Estd. - 1996

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Ref. No. : S.Sc.Cl.UGC./Conf./2017/9054

Date : 27/12/17

To,

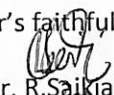
The Joint Secretary  
University Grants Commission  
North Eastern Regional Office  
Basishtha Road, Guwahati-781006

Sub : Submission of utilization certificate and feedback form of National Workshop on "Recent Trends in Physical Science Research" on 21<sup>st</sup> & 22<sup>nd</sup> October 2017.

Sir,

I, the undersigned hereby submitted the utilization certificate and feedback form of the UGC sponsored National Workshop on "Recent Trends in Physical Science Research" held on 21<sup>st</sup> & 22<sup>nd</sup> October 2017 at the department of Physics, Silapathar Science College in Collaboration with Aryabhata Science Centre, Sissiborgaon Block. Dhemaji, Assam.



Your's faithfully,  
  
(Dr. R. Saikia)  
Principal  
Silapathar Science College  
Basishtha Road, Guwahati-781006

Enclosure :

1. U/C
2. Feedback Form
3. Invitation Cum Circular
4. Technical Session Copy( Rapporteous)
5. List of Resource persons and participant attended
6. Details of Programme
7. Paper Cuts



Save Poba  
... Save Nature

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Dhemaji, Assam, India  
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Website : www.silapatharsciencecollege.com

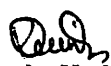
## FORMAT FOR STATEMENT OF EXPENDITURE & UTILIZATION CERTIFICATE


1. UGC File No : F.8-43/Sem/Conf/NERO/2014-15/161 dtd. 05-07-2017
2. Title of the Conference/Workshop/Seminar : Recent Trends in Physical Science Research
3. Name of the Convener/Organizing Secretary : Mr. Partha Nath Dutta
4. Number of Participants : 150 Nos
5. Duration Of the Activity(With Dates) : 21<sup>st</sup> & 22<sup>nd</sup> October'2017

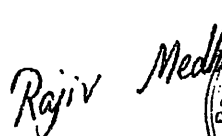
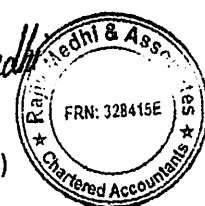
Sanction No. & Date	Grant sanctioned now	Details of expenditure incurred item-wise	Amount(Rs.)
F.8.43/SEM/Conf/NERO/2014-15/161 dtd 5 <sup>th</sup> July'2017	Rs.1,00,000/-	1. TA and Honorarium for Resource Persons	Rs. 50,000.00
		2. TA for Paper Presenters(Not applicable for Departmental Seminar)	N/A
		3. Pre- Conference Printing (Announcements, Abstracts, etc.)	Rs. 11,500.00
		4. Publication of Proceedings.	Rs. 3,500.00
		5. Local Hospitality.	Rs. 35,000.00
		Total Expenditure	Rs. 1,00,000.00
		Grant Received	Rs. 80,000.00
		Balance to be Received	Rs. 20,000.00

It is certified that the amount of Rs.1,00,000/-(Rupees one Lakhs) only out of the total grant of Rs.1,00,000/- Rupees (One Lakh) only sanctioned to Silapathar Science College By the University Grant Commission vide its letter No . F.8-43/Sem/Conf/NERO/2014-15/161 dtd. 5th July'2017 for conducting Workshop has been utilized for the purpose for which it was sanctioned and in accordance with the terms and conditions as laid down by the Commission.

If as a results of check or audit objection some irregularities are noticed at a later stage, action will be taken for refund, adjustment or regularization.

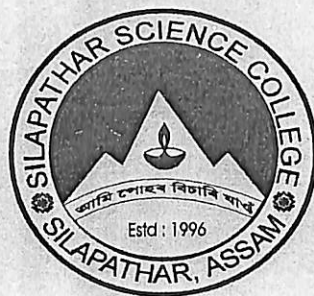
  
(Partha Nath Dutta)  
(Convener)

  
(Dr. Ranjit Saikia)  
Head of the College  
Principal  
Silapathar Science College  
Silapathar

  
Signature (with seal) 

of the Govt. Auditor/ Chartered Accountant

PROCEEDING  
OF  
UGC SPONSORED NATIONAL LEVEL WORKSHOP  
ON  
"RECENT TRENDS IN PHYSICAL SCIENCE RESEARCH"  
ON  
21<sup>ST</sup> AND 22<sup>ND</sup> OCTOBER, 2017



ORGANIZED BY

DEPARTMENT OF PHYSICS

SILAPATHAR SCIENCE COLLEGE, SILAPATHAR, DHEMAJI, ASSAM

SUBMITTED TO

UNIVERSITY GRANT COMMISSION

NORTH EASTERN REGIONAL OFFICE RENTAL BLOCK -V HOUSFED COMPLEX

BELTOLA-BASISTHA ROAD DISPUR, GHY-06, ASSAM

SUBMITTED BY

SILAPATHAR SCIENCE COLLEGE, AMRIPUR, SILAPATHAR, DHEMAJI ASSAM 787059

IN COLLABORATION WITH ARYABHATTA SCIENCE CENTRE

SISSIBORGOAN BLOCK. DHEMAJI ASSAM (INDIA)

PROCEEDING  
OF  
UGC SPONSORED NATIONAL LEVEL WORKSHOP  
ON  
“ RECENT TRENDS IN PHYSICAL SCIENCE RESEARCH ”  
ON  
21<sup>ST</sup> AND 22<sup>ND</sup> OCTOBER, 2017



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## A BRIEF REPORT ON UGC SPONSORED NATIONAL WORKSHOP

### “Recent Trends in Physical Science Research”

Workshop is a platform through which the knowledge generated by different scientists, technocrats, teachers and research scholars may be shared which will ultimately enlighten the society. Keeping this on mind, a workshop has been organized by the college having the objectives as to develop greater understanding of physics research and its applications to promote new industries; to innovate knowledge about recent breakthroughs in physics, in both fundamental and technological aspects; to help in implementation of national cooperation in new trends in physics research; to improve the performance of the physics research facilities in India and to bring out innate talents from Students and young Scientists in the fields of industrial growth Spectroscopy, Nano & NLO materials, Wireless technology, Crystal Growth & Crystallography, Bio-Materials, Semi & Superconducting Materials, Thin Films, Astro Physics, Lasers, Geo Physics, Medical Physics, Theoretical physics, Fuel Materials.

The two days workshop was hosted by Dept of Physics, Silapathar Science College in collaboration with Aryabhata Science Centre, Sissiborgaon Block on 21/11/2017 and 22/11/17 with two academic and three technical sessions.

The first day was started with registration at 7.30 am to 8.30 am followed by inaugural ceremony with an inauguration song sung by Silapathar Science College students. After lighting of lamp by Dr. Kondinya, President GB, Silapathar Science College and felicitation of dignitaries, the welcome speech was given by Dr. Ranjit Saikia, Principal of the College. Inaugural speech was delineated by Mr. Partha Nath Dutta, Convener, workshop organizing committee, giving emphasis on recent advancements on physical science researches. The resource persons Dr. Pankaj Dutta, Associate Professor, Dept of Physics, Dibrugarh University, Dr. Dipok Kr. Neog, Principal, Dhemaji College and Mr. Santanu Konwar, IIT Guwahati were also talked few lines on recent trends on physical sciences. The key note address speech was given by Dr. Pankaj Dutta.

After taking tea and refreshment by the participants and dignitaries, first technical session was started at 9.30 am with the subtheme "Fundamentals of Nano Materials and Nano material enhanced photoluminescence from rare earth". The session was chaired by Dr. Kondinya, Retd. Professor, JNU, Delhi and the resource person of this session was Dr. Pankaj Dutta, Associate Professor, Dept of Physics, Dibrugarh University, Assam. Mr. Paris Konch, Dept. of Computer Science, Silapathar Science College, acted as Rapporteur of that session. The resource person was speaking on vastness and new areas of Physics, most cited work on material science, nine dominant areas where nano materials plays a vital role, four classes of nano materials in terms of dimensions, nano structured semi conductors and their uses, the band gap engineering, surface plasma resonance, electronic density of state and dimensionality, Fabrication of nanomaterial approaches, nano hazards etc. He also demonstrated about the ongoing works and its major finds on nano material in the laboratory of physics department in Dibrugarh University and the light it is going to throw in the study of Physics in near future.

Second technical session was started at 11.am with an out breaking speech of Dr. Dipak Kr. Neog, Principal, Dhemaji College as resource person on Basic electronics and recent communication systems, which was also the subtheme of that session. In that presentation he had sought out the following points- artificial intelligence, rise of level-3 autonomous vehicles, drone deliveries, 3D printing, virtual reality, automated finance, big data that is going to grow in the upcoming days, mobile communication band, dual band, triple band, quad band, multi band NIMO antenna. He explained how the above mentioned points has been dominating the everyday life of people. It showed the depth of physics in our life. The session was chaired by Dr. Ranjit Saikia, Principal, Silapathar Science College. Mr. Arpan Purkayastha, Dept. of Physics, Silapathar Science College, act as Rapporteur of that session.

The technical session III was started at 1.30 pm after lunch and Dr. Dipak Neog was the chairperson of that session. Sub theme of that session was computer generated holography. Resource person of that session was Mr. Santanu Konwar, IIT Guwahati. The presentation was based on some research works on optical science carried out at the computer generated Holography laboratory, Department of physics, Indian Institute of Technology, Guwahati. The presentation was brought down to the very basic and fundamental level, in order to make it understandable to the general audience. The presenter showed the importance of light and light based technologies in our day to day life and the evolution of these technologies to the present



day devices. The evolution of light based technologies has so revolutionized that on 20 December 2013, the UN general assembly, 68 sessions proclaimed 2015 as the International Year of Light –based Technologies. The main focus of the presentation was on light wave. The presenter initiated with the basic idea of wave and their presentation through some simple examples and our day to day experiences. He then highlighted some basic concepts on wave propagation, wavefront and Huygen principle. Wavefront can be defined as the surface formed by the locus of all the points that are at an equal optical path length from the source. The propagation of the wavefront is explained by the Huygen principle, which states that – each and every points of a wavefront may be considered as a secondary source of spherical waves or wavelets which spread out with the speed of light. The new wavefront at a later time is the surface that is tangential to all the secondary wavelets taken together. The major phenomenon of light, i.e., interference and diffraction which validates its wave nature, were also presented. Interference is a phenomenon in which two waves superpose to form a resultant wave of greater, lower or the same amplitude while diffraction occurs when a wave encounters on a obstacle or a slit these characteristics behaviors are exhibited when a wave encounters an obstacle or a slit that is comparable in size to its wavelength . these phenomenon were visualized through some simple laboratory and self made experiment. The experiments were such that they could be easily performed at home by the students .

After the basics some of the research work on optical science carried out at computer generated holography laboratory, Department of Physics, IIT, Guwahati, were brought to light . the works includes wave front sensing , computer generated holography and free space optical communication. Starting from conventional holograms and their usefulness the presenter in a very simple language described about computer generated holograms as well as computer generated holography technique. A hologram is a recording of the interference pattern formed when the light from a monochromatic source (the reference beam) of a particular wavelength encounters light of the same wavelength arriving from an object( the object beam). Now if the phase profile of the object beam is specified the interference pattern for a given reference wavefront can be computed in a computer, are known as computer generated holograms. He further showed how this technique can be used to find out the aberrations( unwanted deviation from the reference wavefronts) present in a wavefront with the help of wavefront sensors and Zernike polynomials (a set of orthogonal polynomials). The wavefront sensors were elaborately

described under two heads : zonal wavefront sensor and model wavefront sensor. Finally, a novel technique of free space optical communication system developed at the above mentioned laboratory of Department of Physics, IIT, Guwahati was demonstrated.

In the presentation the presenter took us to a tour from basics textbook concept of wave and wave optics to the various researches on optical science carried out at the computer generated holography laboratory, Department of Physics, IIT, Guwahati. Keeping in view of the audience ranging from BSc students to research scholars and faculty members, the talk was well organized and well planned from basics to research . it was overall a fruitful and informative talk and the audience had much to gain from it. Mr. Tridip Chutia, Dept. of Chemistry, Silapathar Science College, act as Rapporteur of that session.

2<sup>nd</sup> day of the national workshop was started with felicitation of resource persons. Distinguish guests had gave valuable thoughts on different aspects of physics on day to day life. The participants had also put forth their experiences and memories during the tenure of the present two day's workshop. After taking tea and refreshments, distribution of certificate among the participants were done. Valedictory session was chaired by Dr. Kondinya, President, Governing Body, Silapathar Science College. The two day's wholesome programme was concluded with vote of thanks by Mr. Pradeep Upaidhaya, Asstt. Professor, Dept of Physics, Silapathar Science College.



Partha Nath Dutta  
Convenor

Workshop organizing Committee



TECHNICAL SESSION

UGC Sponsored National Workshop on Recent Trends in Physical Science on 21th October  
2017 Dept of Physics, Silapathar Science College in Collaboration with Aryabhata Science  
Centre

21/11/17 (Saturday) & 22/11/17(Sunday)

Details of Sessions :

1. Sessions : Two days workshop – Technical Session -3
2. Academic Session : 2
3. Host organization : Silapathar Science College, Silapathar
4. Tentative days of the workshop: Two days
5. Session : Academic Session – 2  
Technical session – 3

First day : Academic Session : 1

Technical Session : 3

First Technical Session-

- Chairperson : Dr Kondinya, Retd Professor, JNU Delhi  
Resource Person : Dr Pankaj Dutta, Associate Professor, Dept of Physics, DU  
Sub Theme : Fundamentals of Nano materials and Nano material Enhanced  
Photoluminescence from Rare Earth.

Second technical Session-

- Chairperson : Dr Ranjit Saikia, Principal, Silapathar Science College  
Resource Person : Dr Dipok Kumar Neog, Principal, Dhemaji College  
Sub Theme : Basic Electronics and Recent Communication System

Third Technical Session-

- Chairperson : Dr Dipok Kumar Neog, Principal, Dhemaji College  
Resource Person : Mr. Santanu Konwar, Research Scholars, IIT Guwahati  
Sub Theme : Computer generated Homography

  
Principal  
Silapathar Science College  
Silapathar-787059

## Details of the Workshop

21/11/17 (Saturday) & 22/11/17 (Sunday)

7.30 A.M –8.30 A.M --- Registration

8.30 A.M – 9.30 A.M—Inaugural ceremony

9.30 A.M –9.45 A.M-- Tea and Refreshment

9.30 A.M –11.00A.M—First Technical Session

Sub Theme --Fundamentals of Nano materials and Nano material enhanced photoluminescence from rare earth

11.00 A.M—12.30 P.M—Second Technical Session

Sub Theme -- Basic Electronics and Recent Communication System

12.30 P.M- 1.30 P.M—Lunch break


1.30 P.M- 3.00 P.M- Third Technical Session

Sub Theme-- Computer generated Homography.

Valedictory Session :

Chairperson : Dr. Kondinya , Retd Prof. JNU New Delhi


- i. Felicitation
- ii. Speech from Distinguish Guest
- iii. Speech from Participant
- iv. Distribution of Certificate
- v. Vote of Thanks by Mr Pradeep Upaidhaya, Asstt Prof , Dept of Physics. Silapathar Sc. College
- vi. End of the Session

  
Principal  
Silapathar Science College  
Silapathar-787059

## INAUGURATION SESSION

21/10/17 (Saturday ) & 22/10/17 (Sunday)

1. Inaugural Song by : Silapathar Science College Students
2. Felicitation to : Dignitaries
3. Welcome Speech : Dr. Ranjit Saikia, Principal Silapathar Science College
4. Lighting of the lamp : Dr. Kondinya . President GB Silapathar Science College
5. Inaugural Speech : Partha Nath Dutta . Convener, Workshop organizing Committee
6. Speech From : Resource Person
  - a) Dr Pankaj Dutta
  - b) Dr Dipok Kr Neog
  - c) Mr Santanu Konwar
7. Speech from Key Note Address : Dr Pankaj Dutta
8. Vote of Thanks : Partha Nath Dutta, Convener. Workshop organizing Committee

  
Principal  
Silapathar Science College  
Silapathar-787059

**TECHNICAL SESSION –I (9.30 AM-11.00 AM)**

**UGC Sponsored National Workshop on Recent Trends in Physical Science on 21th October 2017 Dept of Physics, Silapathar Science College in Collaboration with Aryabhata Science Centre.**

Chairperson : Dr Kondinya. Retd. Prof JNU Delhi

Resource Person : Dr Pankaj Dutta. Associate Professor, Dept of Physics D.U

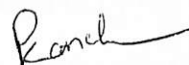
Rapporteur : Mr Paris Konch, Dept of Computer Science Silapathar Science College

Topic : Fundamentals of Nano materials and Nano material enhanced Photoluminescence from rare earth.

In the first technical session the speaker highlight the following points

- Vastness of Physics
- New areas of Physics
- Most cited works on material Science
- Nine dominant areas where nano materials play a vital role
- Four classes of nano materials in terms of dimensions
- Nano structured semi conductors and their uses
- The band gap Engineering
- Surface plasma resonance
- Electronic density of state and dimensionality
- Fabrication of Nanomaterials approaches
- Nano hazards
- He also demonstrated about the ongoing works and its major finds on nano material in the laboratory of Physics Dept in Dibrugarh university and the light it is going to throw in the study of physics in the near future.

Signature



Name of the Rapporteur : Paris Konch

Department: Computer Science

Institution: Silapathar Science College

  
Principal  
Silapathar Science College  
Silapathar-787059

## TECHNICAL SESSION –II (11.00 AM-12.30 PM)

UGC Sponsored National Workshop on Recent Trends in Physical Science on 21th October 2017 Dept of Physics, Silapathar Science College in Collaboration with Aryabhata Science Centre.

Chairperson : Dr Ranjit Saikia. Principal, Silapathar Science College

Resource Person : Dr Dipok Kumar Neog. Principal, Dhemaji College

Rapporteur : Mr Arpan Purkayastha, Dept of Physics, Silapathar Science College

Topic : Basic Electronics and Recent Communication System.

In this presentation sought out the following points

- Artificial Intelligence
- Rise of level-3 Autonomous vehicles
- Drone Deliveries
- 3D printing
- Virtual reality
- Automated finance
- Big data that in going to grow in the upcoming days
- Mobile communication band
- Dual band
- Triple band
- Quad band
- Multi band NIMO Antenna


The presentation explained how the above mentioned points are dominating the everyday life of people. It show the depth of physics in our life.

Signature : 

Name of the Rapporteur : Arpan Purkayastha

Department: Physics

Institution: Silapathar Science College

  
Principal  
Silapathar Science College  
Silapathar-787059

## TECHNICAL SESSION –III (1.30 PM-3.00 PM)

UGC Sponsored National Workshop on Recent Trends in Physical Science on 21th October 2017 Dept of Physics, Silapathar Science College in Collaboration with Aryabhatta Science Centre.

Chairperson : Dr Dipok Kumar Neog, Principal, Dhemaji College

Resource Person : Santanu Konwar, Research Scholars, IIT Guwahati

Rapporteur: Tridip Chutia, Dept of Chemistry, Silapathar Science College

Sub Theme : Computer generated Homography

The presenter covered the following points

- Wave
- Wavefront
- Huygens Principle
- Diffraction
- Interference
- Hologram
- Computer generated Homography
- Reference beam and object beam
- Wavefront Sensing
- Zonal wavefront Sensor
- Modal wavefront Sensor
- Applications in the laboratory in the recent times.

He concluded by highlighting the recent studies that is going on in IIT and different institutions on this particular topic.

Signature :



Name of the Rapporteur : Tridip Chutia

Department: Chemistry

Institution: Silapathar Science College



Principal  
Silapathar Science College  
Silapathar-787059

UGC Sponsored National Workshop  
On  
"Recent Trends in Physical Science Research"

At  
Silapathar Science College  
Silapathar -787059, Assam  
On  
21st & 22nd October 2017

**REGISTRATION FORM**

Name.....

Designation.....

Fax.....

Email.....

Phone.....

Mobile.....

Particulars of Demand Draft/Cash Receipts Amount  
in Rs. ....

(in words.....only)

Draft/Cash Memo No.....

Date.....

Signature  
(Name in Full)



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... Save Nature

**Connectivity**

- 1) The College is easily accessible from Silapathar Town by two wheelers and three wheelers.
- 2) Day and night buses available from Guwahati via Nagaon, Tezpur, Lakhimpur and Dhemaji.
- 3) Journey by Train is also available from Guwahati.

**Accommodation**

The organising committee will not bear the accommodation cost for the participations. However with prior information the organising committee is ready to arrange the accommodation for the participants without bearing the cost.

No. TA/DA will be provided to the participants.

**Important**

- 1) Last date for registration 21st October 2017 (upto 8.00AM)
- 2) Opening Session : 8.30 AM

**For details**

Dr. R. Saikia, Principal, Silapathar Science College  
Phone : 9954422019  
Mr. P.N. Dutta, Chief Secretary & Convenor  
Ph. 9678320401,  
E-mail: duttapartha01@gmail.com  
Mr. Debajit Patir, Joint Convenor  
Ph. 9957883772  
Mr. Pradip Upadhyaya, Joint Convenor  
Ph. 8486233536  
Mr. Arpan Purukayasta, Joint Convenor  
Ph. 9954823604

Please visit our website:  
[www.silapatharsciencecollege.com](http://www.silapatharsciencecollege.com)  
for further information

**SILAPATHAR SCIENCE COLLEGE**

AMRITPUR, SILAPATHAR-787059  
DHEMAJI, ASSAM



INVITATION TO  
UGC SPONSORED NATIONAL WORKSHOP

ON  
"RECENT TRENDS IN PHYSICAL SCIENCE RESEARCH"

ORGANISED BY DEPARTMENT OF PHYSICS

In collaboration with  
ARYABHATTA SCIENCE CENTRE, SISSI BLOCK

DATE : 21ST & 22ND OCTOBER, 2017

**VENUE**

SILAPATHAR SCIENCE COLLEGE, SILAPATHAR  
P.O. SILAPATHAR, DIST DHEMAJI  
PIN-787059, ASSAM

Website: [silapatharsciencecollege.com](http://silapatharsciencecollege.com)  
Email : [duttapartha01@gmail.com](mailto:duttapartha01@gmail.com)



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Science College fraternity feels pleasure to invite you to the workshop on "Recent Trend in Physical Science Research" to be held on 21st & 22nd October 2017 organised by Dept. Physics, Silapathar Science College. Your active participation in the same is desired for.

Dr. Ranjit Saikia  
Principal/President  
Silapathar Science College

P.N. Dutta  
Convenor/Chief. Secy.  
Dept. of Physics

### About the Workshop

The 20th century is known as the century of knowledge. Lots of new development in various fields of Science and Technology has taken place during the century. 21st century also carrying the same momentum in terms of development of knowledge, science or technology. In Physics many new areas are emerging as potential area of research viz Nanomaterials, Optoelectronics, thin films, particle physics, astrophysics etc. In this region many researchers are engaging themselves for the development of this areas. The Plan of this workshop is to make a platform for the gathering of all these scholars to discuss their finding and motivate the young scholars for pursuing their research works.

### Participate :

The workshop is opened to all interested academicians in this field.



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... Save Nature

### THEME/TOPIC OF THE WORKSHOP

## "Recent Trend in Physical Science Research"

### Registration:

Participate need to submit the filled in Registration form provided herewith (or photocopy of the same) upto 8 AM on 21st Oct. 2017 via post, email along with the registration fees of rupees 200/- only. Fees can be paid in cash or through demand draft in favour of Principal, Silapathar Science College, Silapathar, Payable at SBI, Kulajan.

### About the College

Silapathar Science College, Silapathar established in the year 1996, has been playing a leading role in imparting higher education to the students of Northern Part of upper Assam, along with the students of Arunachal Pradesh situated in an economically and educationally backward area in the college produced number of good students in different fields. The vision and mission of the Institution is to provide higher education to the people of this remote and backward area which is lagging behind educationally as well as economically. The institutions aims at providing quality education for the upliftment of the society. The college is permanently affiliated to Dibrugarh University and recognised by UGC and recently recognised by KKHSOU as study centre.

The college is situated in a highly Academic atmosphere at Amritpur within Silapathar Town area and is about 3km away from the heart of the town and a walking distance (about 2 km) from Silapathar, Likabali Main road by Late Malthura Nath Baruah Path (near Silapathar Masjid).

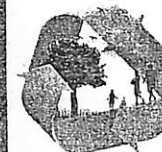
### PROGRAMME

## 21st October, 2017

- 7.30 Am to 8.30 AM : Registration  
8.30 AM to 9.30 AM : Inaugural Ceremony  
Inaugurate :  
Welcome Address : Dr. R . Salkia, Principal,  
Silapathar Science College  
9.30 AM to 9.45 AM : Tea/Refreshment  
Session 1 : 9.30 AM to 11.00 AM  
Session 2 : 11.00 AM to 12.30 PM  
LUNCH : 12.30 PM to 1.30 PM  
Session 3 : 1.30 PM to 3.00 PM

## 22nd October, 2017

- Validictory Sesssion : 10.00 AM to 1.00 PM  
Chairperson : Dr. Kondinya, Retd., Prof.  
JNU, Delhi  
Resource Person : Dr. Pankaj Dutta, Associate Prof,  
Dept. of Physics, Dibrugarh University.  
: Dr. Tado Karlo, HoD,  
Dept. of Physics, NERIST,  
Arunachal Pradesh.  
: Dr. Dipak Kr. Neog, Principal,  
Dhemaji College.  
: Dr. Gomti Devi, Associate Prof.,  
Dept. of Physics, NERIST,  
: Dr. Litul Bokotial, Asstt. Prof.,  
Dept. of Physics,  
North Lakhimpur College  
: Mr. Lalit Baruah, Asstt Prof.  
Biswanath College



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UGC SPONSORED  
NATIONAL WORKSHOP  
ON  
RECENT TRENDS IN PHYSICAL  
SCIENCE RESEARCH



*Organised by*  
DEPARTMENT OF PHYSICS  
Silapathar Science College, Silapathar, Dhemaji, Assam  
*In collaboration with*  
ARYABHATTA SCIENCE CENTRE, SISSI BLOCK


DATE : 21ST & 22ND OCTOBER, 2017

**Certificate of Participation**

*This certificate is awarded to*

*Dr./Mr./Ms. .... of*  
*..... for*  
*his/her participation in the UGC sponsored National Workshop on Recent Trends in Physical Science Research' held at Silapathar Science College, Silapathar, Dhemaji (Assam) - 787059 on 21st & 22nd October, 2017.*

Mr. Partha Nath Dutta  
Convener  
Workshop Organising Committee

  
Dr. Ranjit Saikia  
Principal  
Silapathar Science College



# Silapathar Science College

... think scientifically, ... act scientifically ...

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d. - 1996

No. : S.Sc.C/.....

Date : .....

To,

.....  
.....  
.....

**UGC SPONSORED NATIONAL WORKSHOP  
ON  
"RECENT TRENDS IN PHYSICAL SCIENCE RESEARCH ."  
21<sup>ST</sup> TO 22<sup>ND</sup> OCTOBER 2017-10-10  
Organised by  
Department of Physics  
Silapathar Science College**

Dear,

Sir/Madam/Colleague

We are pleased to invite you to the national workshop on "*Recent Trends in Physical Science Research*" which will be held on 21<sup>st</sup> and 22<sup>nd</sup> October 2017 at Silapathar science college, Silapathar. The main motive of the workshop is to make a platform for the gathering of the scholar from various fields to discuss their findings and motivate the young scholar in pursuing their research work. Your presence during the prestigious workshop will be of great value to the cause. Last date of registration is 21<sup>st</sup> October before 8 am. Research scholar/faculty members/students from faculty of science are invited for the same.

With best regard,

*(P.N. Dutta)*  
Cheif secy/convernor  
Workshop Organsing Committee  
Silapathar science College

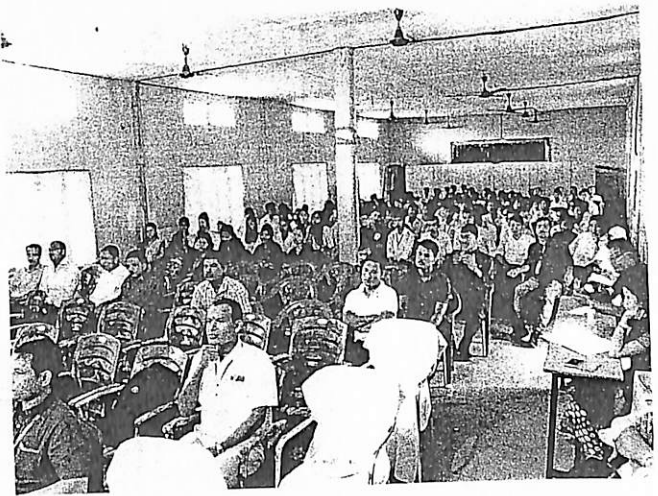
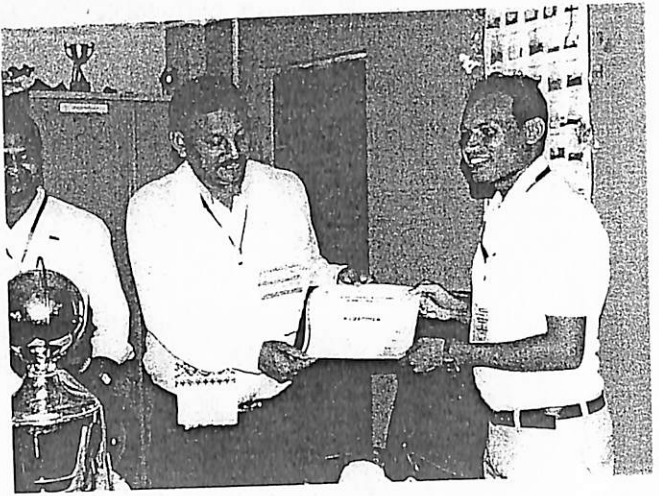
*(Dr. R. Saikia)*  
Principal/Chairperson  
Workshop organising committee  
Silapathar science College



**Save Poba  
... Save Nature**

Amritpur, Silapathar - 787059  
Dhemaji, Assam, India  
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ranjitsaikia09@rediffmail.com  
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UNIVERSITY OF CALicut  
**UNIVERSITY SPONSORED NATIONAL WORKSHOP**  
 ON  
**RECENT TRENDS IN PHYSICAL SCIENCE RESEARCH**  
*Organized by*  
 Department of Physics, Calicut University, Calicut, Amalapuram  
 21<sup>st</sup> 8 - October



শ্ৰীমতী "Amal Ason" Date: 18/10/17

# চিলাপথাৰ বিজ্ঞান মহাবিদ্যালয়ত ৰাষ্ট্ৰীয় পৰ্যায়ৰ কৰ্মশালা

## ২১-২২ অক্টোবৰত

চিলাপথাৰৰ প্ৰতিবেদক, ১৮ অক্টোবৰঃ অহা ২১ আৰু ২২ অক্টোবৰত  
চিলাপথাৰ বিজ্ঞান মহাবিদ্যালয়ত এখন ৰাষ্ট্ৰীয় পৰ্যায়ৰ কৰ্মশালা অনুষ্ঠিত  
হ'ব। চিলাপথাৰ বিজ্ঞান মহাবিদ্যালয়ৰ পদাৰ্থ বিজ্ঞান বিভাগৰ উদ্যোগত  
আৰু বিশ্ববিদ্যালয় অনুদান আয়োগৰ অর্থ সাহায্যৰে অনুষ্ঠিত হ'ব লগা  
"RECENT TRENDS IN PHYSICAL SCIENCE RESEARCH"  
পৰ্যায়ৰ ৰাষ্ট্ৰীয় পৰ্যায়ৰ কৰ্মশালা খনিৰ প্ৰথম দিনৰ কাৰ্যসূচীত পূৰ্বা  
অংশগ্ৰহণকাৰী সকলৰ নাম পঞ্জীয়নৰ পিছতেই উদ্বোধনী পৰ্বত আদৰ্শ  
ভাষণ আগবঢ়াব মহাবিদ্যালয়ৰ অধ্যক্ষ ড° ৰঞ্জিত শইকীয়াই। পূৰ্বা ৯.৩০  
বজাৰ পৰা ১১.৩০ বজালৈ কৰ্মশালাৰ তিনিটা পৰ্ব অনুষ্ঠিত হ'ব। য'ত  
সমল ব্যক্তি হিচাপে উপস্থিত থাকিব ডিব্ৰুগড় বিশ্ববিদ্যালয়ৰ পদাৰ্থ বিজ্ঞান  
বিভাগৰ সহযোগী অধ্যাপক ড° পংকজ দত্ত, অৰুণাচল প্ৰদেশৰ নেৰিষ্টৰ  
পদাৰ্থ বিজ্ঞান বিভাগৰ মূৰব্বী অধ্যাপক ড° টাড কাৰিঅ, সহযোগী  
অধ্যাপক ড° গমটি দেৱী, ধেমাজি মহাবিদ্যালয়ৰ অধ্যক্ষ ড° দীপক কুমাৰ  
নেওগ, উত্তৰ লখিমপুৰ কলেজৰ সহকাৰী অধ্যাপক ড° লিটুল বকটিয়াল  
আৰু বিশ্বনাথ কলেজৰ সহকাৰী অধ্যাপক ললিত বৰুৱা। ২২ অক্টোবৰৰ  
পূৰ্বা ১০ বজাৰ পৰা ১ বজালৈ প্ৰমাণ পত্ৰ বিতৰণ সভা অনুষ্ঠিত কৰা  
হ'ব। সভাপতিত্ব কৰিব দিল্লী জৱহৰলাল নেহৰু বিশ্ববিদ্যালয়ৰ  
অৱসৰপ্ৰাপ্ত অধ্যাপক ড° কোণ্ডিয়া। উদযাপন সমিতিৰ সভাপতি ড°  
ৰঞ্জিত শইকীয়া আৰু সম্পাদক পদাৰ্থ বিজ্ঞান বিভাগৰ মূৰব্বী অধ্যাপক  
পাৰ্থনাথ দত্তই জানিবলৈ দিয়া মতে, ইচ্ছুক ব্যক্তিসকলে ২১ অক্টোবৰৰ  
পূৰ্বা ৮ বজালৈ নাম পঞ্জীয়ন কৰিব পাৰিব। দুবছৰ ভিত্তিত  
অংশগ্ৰহণকাৰী সকলক উদযাপন সমিতিয়ে যাতায়াতৰ খৰছ বহন  
কৰিব। সবিশেষ জানিবৰ কাৰণে উদযাপন সমিতিৰ আহ্বায়ক পাৰ্থনাথ  
দত্তৰ ৯৬৭৮৩২০৪০১, যুটীয়া আহ্বায়ক দেৱজিৎ পাতি বৰ  
৯৯৭৭৮৮৩৭৭২, প্ৰদীপ উপাধ্যায়ৰ ৮৪৮৬২৩৩৫৩৬ অৰ্পণ  
পুৰকাৰ হ'ব ৯৯৫৪৮২৩৬০৪ নাম্বৰত যোগাযোগ কৰিব পাৰিব।

Principal  
Silepathar Science College  
Silepathar-787059

ut - " Assam Tribune '4 Date: 30/10/17

the final cost of the project is likely to go up to Rs 5,000 crore, the source added.

**Workshop:** The UGC sponsored national workshop on recent trends in Physical Science research was held at Silapathar Science College. The workshop was organised by the Department of Physics in collaboration with Aryabhata Science Center, Sissi Block.

The welcome address was delivered by Dr Ranjit Saikia, principal, Silapathar Science College while the workshop was chaired by Dr Kondinya, retired professor, JNU, Delhi.

Dr Pankaj Dutta, associate professor, Department of Physics, Dibrugarh University, Dr Dipak Kr Neog, principal of Dhemaji College and Santanu Konwar, research scholar, IIT Guwahati delivered speech on recent trends in Physical Science research as resource persons.

Santanu Konwar delivered speech on holography, computer generated holography, zernike mode polynomials, wave front sensing.

The vote of thanks was delivered by Partha Nath Dutta, chief secretary of the workshop of Physics department.



Principal

Silapathar Science College  
Silapathar-787059

Jews cut "Nigomiya Barla" 21/10/17

## চিলাপথৰ বিজ্ঞান মহাবিদ্যালয়ত কৰ্মশালা



নিয়মীয়া বাৰ্তা, চিলাপথৰ, ২১ অক্টোবৰ : ধেমাজি জিলাৰ চিলাপথৰ বিজ্ঞান মহাবিদ্যালয়ত আজি ৰাষ্ট্ৰীয় পৰ্যায়ৰ এক কৰ্মশালা অনুষ্ঠিত হৈ যায়। সাম্প্ৰতিক সময়ত শাৰীৰিক বিজ্ঞানৰ গৱেষণা (Recent trends in Physical Science Research) সম্পৰ্কত অনুষ্ঠিত ৰাষ্ট্ৰীয় পৰ্যায়ৰ কৰ্মশালাখন চিলাপথৰ বিজ্ঞান মহাবিদ্যালয়ৰ পদাৰ্থ বিজ্ঞান বিভাগ আৰু চিচিবৰগাঁও আৰ্যভট্ট বিজ্ঞান কেন্দ্ৰৰ সহযোগত অনুষ্ঠিত হৈ যায়। কৰ্মশালাখন চিলাপথৰ বিজ্ঞান মহাবিদ্যালয়ৰ অধ্যক্ষ ড° বঞ্জিত শইকীয়াই আদৰণী ভাষণ পাঠ কৰে। দিল্লীস্থিত জে এন ইউৰ অৱসৰপ্ৰাপ্ত অধ্যাপক ড° কুন্দিন্যৰ সভাপতিত্বত অনুষ্ঠিত কৰ্মশালাখনত ডিব্ৰুগড় বিশ্ববিদ্যালয়ৰ পদাৰ্থ বিজ্ঞানৰ সহযোগী অধ্যাপক ড° পংকজ দত্ত, ধেমাজি মহাবিদ্যালয়ৰ অধ্যক্ষ দীপক কুমাৰ নেওগ আৰু ওৱাহটীস্থিত আই আই টিৰ ৰিছাৰ্চ স্কলাৰ শান্তনু কোঁৱৰে কৰ্মশালাত বক্তব্য ৰাখে। সভাৰ শেষত পদাৰ্থ বিজ্ঞানৰ সহযোগী অধ্যাপক তথা কৰ্মশালাৰ মুখ্য সম্পাদক পাৰ্থনাথ দত্তই শলাগৰ শৰাই আগবঢ়ায়।

*(Signature)*

Principal  
Silapathar Science College  
Silapathar-787059