

INTERNATIONAL SEMINAR ON  
Emerging Trends in Physics & Applications  
(ISETPA-2019)



&  
**36<sup>th</sup> Convention of  
Orissa Physical Society (OPS)**

2<sup>nd</sup> – 4<sup>th</sup> February 2019

*Organized by*

*Department of Physics*



Parala Maharaja Engineering College, Berhampur, Odisha



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## **ABOUT THE SOCIETY:**

The Orissa Physical Society (OPS) was founded in the year 1971. It is an association of physics teachers and researchers of Odisha. It has been actively promoting Physics Education & Research in various ways; by organizing its Annual convention & felicitating physics teachers with lifelong contributions in the field of physics. It also encourages young researchers below the age of 35 by honouring them with “Young Scientist Awards”. The society publishes research and review articles in the field of physics in the journal “Orissa Journal of Physics (OJP)” and popularizes physics through articles published in Odiya magazine “Digbalaya”.

It also takes up steps to improve UG and PG syllabus in Physics taking UGC recommendation into consideration. Under its outreach programmes, the society conducts seminars and workshops in Physics at different schools and colleges in Odisha.

**Application for Young Scientist Award:** The application format, eligibility criteria and other details can be obtained from the OPS website [www.orissaphysicsociety.org](http://www.orissaphysicsociety.org).

## **Call for Papers:**

### **Orissa Journal of Physics (OJP)**

Research/Review articles in any field of Physics for possible publication in OJP may be submitted at any time of the year. The article should be in the format of PRAMANA journal of Physics. A soft copy of the article should be sent through E-mail to the

Editor in Chief: **Prof. Lambodar Prasad Singh**  
E-mail: [lambodar\\_uu@yahoo.co.in](mailto:lambodar_uu@yahoo.co.in)  
**With a copy to** [babitapani@gmail.com](mailto:babitapani@gmail.com)

### **Digbalaya**

Article in Odia for the journal “Digbalaya” should be sent to

Editor in Chief: **Prof. Krutibas Pattnaik**  
Department of Physics,  
Utkal University, Bhubaneswar-751004  
Mob: +91-9437919203

Soft copy of articles for Digbalaya may be sent to the following E-mail Ids.

[shreemishra55808@gmail.com](mailto:shreemishra55808@gmail.com) and [oriphsoc@gmail.com](mailto:oriphsoc@gmail.com)

## **OBJECTIVE OF THE SEMINAR:**

The objective of the seminar is to disseminate recent research and development in different fields of Physics. It brings together academicians and researchers in physics across the globe to a common platform and showcases cutting edge research on the latest innovations in physics from outstanding researchers from India & abroad. It provides a great opportunity for the

participants to present their latest theoretical and experimental results and for young mass to learn about current advancements in physics.

### **FOCUS OF THE SEMINAR:**

The focus of the seminar includes the following topics:

- **Nuclear Physics**
- **Particle Physics**
- **Astrophysics**
- **Condensed Matter Physics**
- **Nanoscience & Nanotechnology**
- **Photonics**
- **Bio-Physics**
- **Material Science**

### **ORGANISING COMMITTEE:**

**CHIEF PATRON: Shri D. V. Swamy, IAS**  
Vice-Chancellor  
BPUT, Rourkela, Odisha

**PATRON: Prof. Ranjan Kumar Swain**  
Principal  
PMEC, Berhampur, Odisha

**CONVENOR: Dr. Satrujit Mishra**  
Assistant Professor  
Department of Physics, PMEC, Berhampur  
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**CO-CONVENORS:**  
**Dr. Punyatoya Mishra**  
Assistant Professor  
Department of Physics, PMEC, Berhampur

**Mr. Krushna Hial**  
Assistant Professor  
Department of Physics, PMEC, Berhampur

**TREASURER: Dr. Jnanaranjan Mohanty**  
Assistant Professor  
Department of Economics, PMEC, Berhampur

### **LOCAL ORGANISING MEMBERS:**

1. **Dr. Purna Chandra Biswal**, H.O.D., Basic Science, PMEC, Berhampur
2. **Dr. Chittaranjan Mallick**, Assistant Professor, Dept. of Mathematics, PMEC, Berhampur
3. **Dr. Puspanjali Mishra**, Assistant Professor, Dept. of Chemistry, PMEC, Berhampur
4. **Dr. Subhashree P. Dash**, Assistant Professor, Dept. of Chemistry, PMEC, Berhampur

5. **Prof. (Dr.) Chitta Ranjan Mohanty**, H.O.D., Dept. of Civil Engg., PMEC, Berhampur
6. **Prof. (Dr.) Sarat Kumar Sahoo**, H.O.D., Dept. of Electrical Engg., PMEC, Berhampur
7. **Dr. Trilochan Rout**, H.O.D., Dept. of Mechanical Engg., PMEC, Berhampur
8. **Dr. Balaji Kumar Choudhury**, H.O.D., Dept. of Automobile Engg., PMEC, Berhampur
9. **Dr. Chitrasen Samantra**, H.O.D., Dept. of Production Engg., PMEC, Berhampur
10. **Dr. Himadri Sahu**, H.O.D., Dept. of Chemical Engg., PMEC, Berhampur
11. **Mr. Kodanda Dhar Naik**, H.O.D., Dept. of Computer Sc. & Engg., PMEC, Berhampur
12. **Dr. Subhashree Panda**, H.O.D., Dept. of Humanities, PMEC, Berhampur
13. **Mrs. T. Mita Kumari**, H.O.D., Dept. of Electr. & Telecomm. Engg., PMEC, Berhampur

#### **INTERNATIONAL/NATIONAL ADVISORY COMMITTEE:**

1. **Prof. Eric Lesniewska**, Dept. of Nanosciences, Univ. of Bourgogne, France
2. **Prof. E. S. Raja Gopal**, Emeritus Professor, IISc Bangalore
3. **Prof. Sudhakar Panda**, Director, NISER, Bhubaneswar
4. **Prof. Ratnam V. Raja Kumar**, Director, IIT, Bhubaneswar
5. **Shri D. V. Swamy**, IAS, Vice-Chancellor, BPUT, Rourkela
6. **Prof. Suddhasatwa Basu**, Director, IMMT, Bhubaneswar
7. **Prof. Ajit Kumar Sinha**, Director, UGC-DAE CSR, Indore
8. **Prof. K. V. R. Chary**, Director, IISER, Berhampur
9. **Prof. Avinash Chandra Pandey**, Director, IUAC, New Delhi
10. **Prof. Dinakar Kanjilal**, Former Director, IUAC, New Delhi
11. **Prof. Ajit Kumar Mohanty**, Director, Saha Institute of Nuclear Physics, Kolkata
12. **Prof. Rajendra Prasad Das**, Vice Chancellor, Berhampur University, Berhampur

#### **MEMORIAL LECTURES:**

##### **1. PROF. BIBHUTI BHUSAN DEO MEMORIAL LECTURE**

**SPEAKER: Prof. H. S. Mani**, Adjunct Professor, Chennai Mathematical Institute, Chennai

##### **2. PROF. SURYA NARAYAN BEHERA MEMORIAL LECTURE**

**(Sponsored by NIST)**

**SPEAKER: Prof. Shyamalendu Bose**, Emeritus Professor, Drexel University, USA

#### **INVITED SPEAKERS:**

1. **Prof. S. D. Mahanti**, Emeritus Professor, Michigan State University, USA
2. **Prof. V. V. Srinivasu**, Professor of Physics, University of South Africa, South Africa
3. **Prof. Sashi Satpathy**, Curators' Professor, University of Missouri, USA

4. **Prof. Shigehiro Nagataki**, Director, RIKEN Cluster for Pioneering Research, Japan
5. **Prof. D. P. Menezes**, Professor, Federal University of Santa Catarina, Brazil
6. **Prof. Sarira Sahu**, Associate Professor, Instituto de Ciencias Nucleares UNAM, Mexico City
7. **Prof. G. Baskaran**, Emeritus Professor, Institute of Mathematical Science, Chennai
8. **Prof. Suresh Kumar Patra**, Professor, IOP, Bhubaneswar
9. **Prof. Raghunath Sahoo**, Associate Professor, IIT Indore
10. **Prof. Pawan Kumar**, Associate Professor, NIT Rourkela
11. **Prof. Tapan Kumar Nayak**, Scientist and Professor, CERN, Geneva
12. **Prof. Chapal Kumar Das**, Ex Prof. & Head, Materials Science Centre, IIT Kharagpur and presently UGC Emeritus Professor, FM University, Balasore, Odisha

**REGISTRATION FEES FOR THE SEMINAR:**

CATEGORY	AMOUNT
International Delegates	\$ 50/-
National Delegates	Rs. 1000/-
Students	Rs. 500/-

Registration fee covers seminar kit, proceedings, certificate, refreshments, lunch and dinner. All payments should be made through online mode (RTGS/NEFT) to the following bank details. (Name- ISETPA AND OPS 2019, Account No.-79982250000963, Name of the bank- Syndicate Bank, Branch-PMEC Campus, Sitalapalli, IFSC Code-SYNB0007998, MICR Code-761025509) or spot registration.

**FEE FOR OPS MEMBERSHIP:**

CATEGORY	AMOUNT
OPS Life Membership Fee	Rs. 1000/-
OPS Patron Membership Fee	Rs. 3000/-
Fee for up gradation from Life Membership to Patron Membership	Rs. 2000/-

Kindly bring this circular to the notice of all your colleagues requesting them to join OPS as its member to strengthen it.

Application form and mode of the payment of fees for enrollment as Life member or Patron member can be downloaded from the OPS website [www.orissaphysicalsociety.org](http://www.orissaphysicalsociety.org). For details please contact.



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Mob: +91- 9437353658  
E-mail:bnayak@gmail.com

### **SUBMISSION OF ARTICLES:**

1. Research/Review Articles in the field of Physics for publication in the proceedings of the seminar (Maximum 4 typed pages in A4 size paper, Times New Roman, Font size-12, line spacing-1.5 may be sent in MS word mode to Dr. Satrujit Mishra through E-mail: [convenor@isetpa.in](mailto:convenor@isetpa.in).
2. Abstract of original papers not more than 300 words for oral and poster presentation should be submitted online to the convenor by the above mentioned E-mail. The presenting author(s) name should be underlined.

At least one of the authors should register for the seminar. The paper(s) received without the registration fee will not be included in the seminar programme/journal publication.

### **IMPORTANT DATES:**

1. Dead line for the submission of Abstracts/Papers/Articles for “Digbalaya”/Souvenir: **January 15, 2019**
2. Request for Accommodation: **January 15, 2019**
3. Deadline for receipt of application for Young Scientist Award: **December 15, 2018**

### **ABOUT PMEC:**

Parala Maharaja Engineering College (PMEC), Berhampur is the first Government Engineering College (NAAC Accredited) in Southern Odisha. It was established in the Year 2009 as the Constituent College of BPUT, Odisha. Since its inception it has emerged as one of the premier technical institute in the state. The main objective of the institution is to produce quality engineers in various streams. The institute is well known for its well qualified proficient faculties and competent students. At present, the campus spreads over 85 acres which consists of Academic Block, two Workshops, one Multipurpose Utility Block, three Halls of Residences, Open Gym, Playground, Guest House & Staff Quarters. The college offers 9 B.Tech and 7 M.Tech courses.

The silk city Berhampur is located on the eastern coast-line of Odisha. It is one of the oldest cities of the state famous for its silk works, temples and culture. The city is well connected by roads and rails to all parts of our country.

**Registration Form**  
**REQUEST FOR PARTICIPATION IN**  
**ISETPA – 2019**  
&  
**36<sup>th</sup> Convention of OPS**  
(2<sup>nd</sup> – 4<sup>th</sup> February, 2019)

**(Please use capital letters to fill up this form)**

1. Name : .....

2. Address :

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

E-Mail : .....

Mobile/Telephone No. : .....

3. OPS Membership Information (Please tick which is applicable) Patron Member/ Life Member

4. Nature of Participation (Please Tick)

a. Attend the Seminar & Convention only

b. Present paper

(Please mention the Title below)

.....

5. Accommodation needed: Yes/No

(Accommodation may be provided to limited number of participants from long distances, if available)

6. Food Preference: Veg/Non-Veg

**Date:**

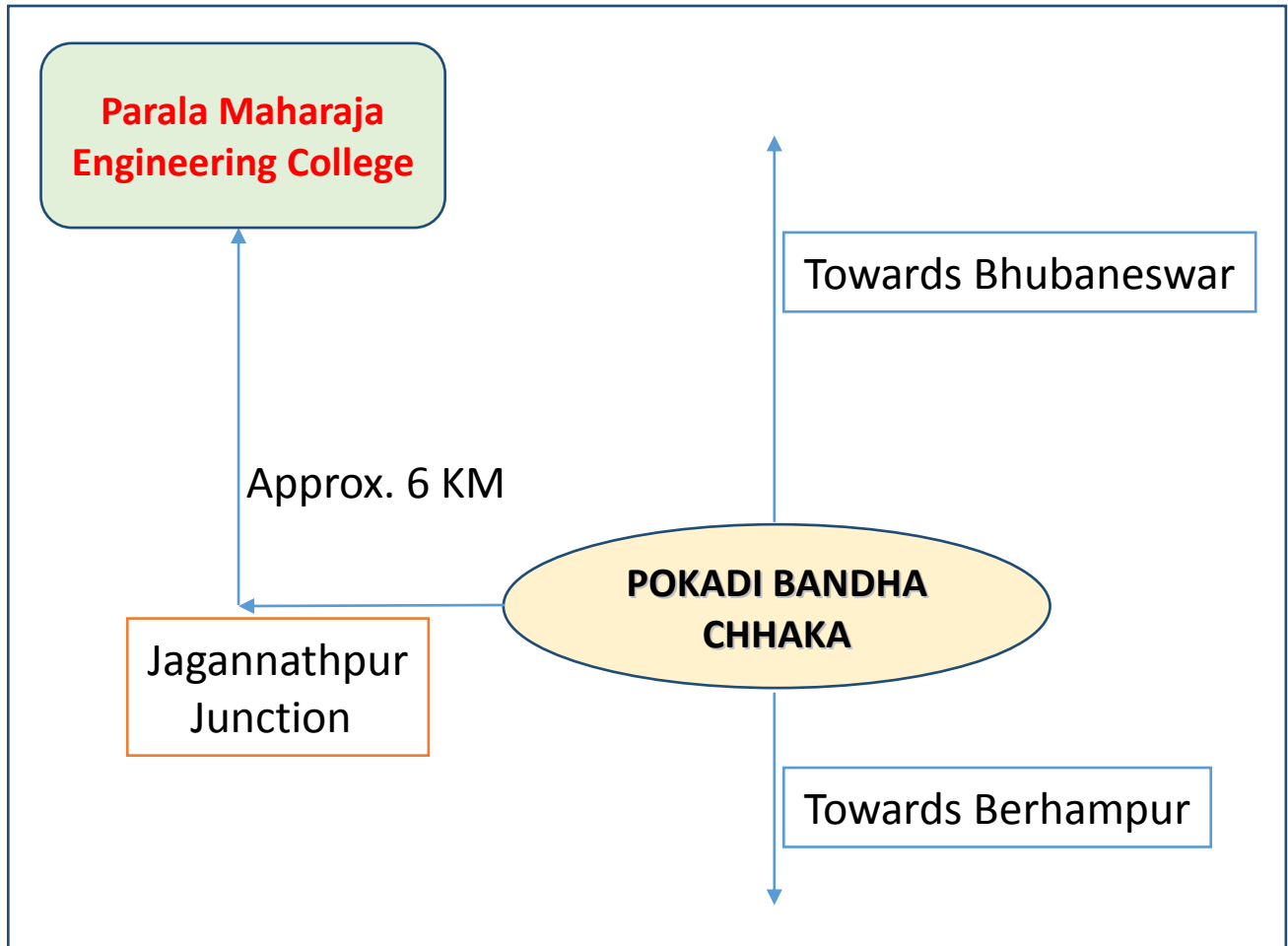
**Signature** .....

**Name** .....

*Please send the duly filled & signed Registration form to the Convenor, **ISETPA-2019** to the following Mail Id: [satrujitmishra@gmail.com](mailto:satrujitmishra@gmail.com), [convenor@isetpa.in](mailto:convenor@isetpa.in) on or before **15.01.2019**.*

For details, kindly visit our website [www.ISETPA.in](http://www.ISETPA.in)

## **ROAD MAP FROM POKADI BANDHA CHHAKA TO PMEC:**



## **CLIMATE OF BERHAMPUR DURING FEBRUARY:**

The silk city Berhampur has very pleasant weather with dry climate of temperature ~ 25°C.

## **NEAR BY PLACES TO VISIT:**

- PMEC to Taratarini Temple – 29 km
- PMEC to Gopalpur Beach – 16 km
- PMEC to Chilika Lake – 60 km
- PMEC to Jiranga – 116 km
- PMEC to Khasada Waterfall – 131 km
- PMEC to Sonepur Beach – 41 km