

## PROGRAMME SCHEDULE

### Day 1 (16/03/2018)

9.00am – 9.30am : **Inauguration**

9.30am – 10.30am : Tutorial 1

**Physics of Crystalline Si solar Cells part 1** - Prof. K. L. Narasimhan,  
IIT Bombay

10.30am – 10.45am : Tea break

10.45am – 11.45am : Tutorial 1

**Physics of Crystalline Si solar Cells part 2** – Prof. K. L. Narasimhan,  
IIT Bombay

11.45am - 12.45pm : Tutorial 2

**Novel c-Si heterojunction solar cells processed at low temperatures** –

**Dr. Aldrin Antony**, IIT Bombay

12.45pm – 01.45pm : Lunch

01.45pm – 3.00pm : Invited Talk

**Highly efficient Organic solar cells with high photocurrent extraction** –

**Dr. Manoj A. G. Namboothiry**, IISER, Trivandrum

3.00pm – 4.00pm : Invited Talk

**Roll-2-Roll Solar Cells** - **Dr. J. K. Rath**, IIT Madras

4.00pm – 4.15pm : Tea

### Day 2 (17/03/2018)

9.30am - 10.45am : Invited Talk

**Carbon Nanomaterials for Alternate Energy** - **Dr. Ramaprabhu S**, IIT  
Madras

10.45am – 11.00am : Tea break

11.00am - 12.45pm : Invited Talk

**Materials for energy storage** - **Dr. Nimai Chand Pramanik**, C-MET Trissur

12.45pm – 01.45pm : Lunch

01.45pm – 3.00pm : Invited Talk

**Two dimensional Materials for Photovoltaics: Prospects and Challenges** -

**Dr. Saji K. J**, International School of Photonics, CUSAT

3.00pm – 5.00pm : **Oral and poster presentations.**

5.00pm – 5.15pm: **Valedictory function**

## CENTRE OF EXCELLENCE IN ADVANCED MATERIALS

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## DEPARTMENT OF PHYSICS

*In association with*

**SPIE & ECS CUSAT STUDENT CHAPTER**

**COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY**

*Organizing*

**Annual National Physics Seminar**

**$\Psi$ -Fest 2018**

&

**UGC & KSCSTE Supported**

**National Workshop on**

## RECENT TRENDS IN PHOTOVOLTAICS

Date:

16-17 March 2018

Venue:

Department of Physics

Cochin University of Science and Technology



Dear Colleague,

Greetings from Centre of Excellence in Advanced Materials and Department of Physics, Cochin University of Science and Technology (CUSAT)

Centre of Excellence in Advanced Materials (CAM) is a unique centre established in Cochin University of Science and Technology, with a single goal of promoting and coordinating research in the broad area of material science.

As part of the current year's activities, we are organizing a National Workshop on "Recent trends in photovoltaics" during March 16-17, 2018. The main objective of the workshop is to address the various aspects in the development of photovoltaics. The participation is restricted to pre-registered candidates only. The registration fee is Rs. 500/- per person. Number of participants is limited and will be on first come first served basis. *Opportunity will be given to young researchers to present their research proposals or research findings. Those interested can submit a one page abstract (MS Word) to [cam.cusat@gmail.com](mailto:cam.cusat@gmail.com) for the contributed paper before 1<sup>st</sup> March 2018. Registration closes on 5<sup>th</sup> March 2018.*

Lectures and discussions on current trends in photovoltaics will be followed by poster presentation. Limited number of need based financial assistance is available for young researchers. For registration, financial support and more details please visit [cam.cusat.ac.in](http://cam.cusat.ac.in)

With regards,

**Prof. M. K. Jayaraj**

Hon. Director

CAM-CUSAT

Email: [cam.cusat@gmail.com](mailto:cam.cusat@gmail.com)

### SUPPORTED BY



### ASSOCIATES



## THEME OF WORKSHOP

Development of highly efficient photovoltaic systems is one of the focal areas of research in the Centre of Excellence in Advanced Materials (CAM), Cochin University Science and Technology. The photovoltaic systems have shown their potential application in solar power generation, communications, rural electrification projects, space applications etc. around the world. Photovoltaic cells provide clean energy but their development is hindered by production cost, material availability, and toxicity. The aim of this workshop is therefore, to contribute to a better understanding of recent developments in solar energy harvesting and methods to overcome the existing limitations of photovoltaic systems. This brainstorming workshop brings the opportunity to collaborate and share ideas to address the development of futuristic photovoltaic systems.

## Ψ-FEST 2018

'Ψ-Fest 2018' is the Project Presentation Competition for the M.Sc II<sup>nd</sup> year students of CUSAT Physics Department which will be conducted on the 17<sup>th</sup> of March 2018.

## ORGANIZING COMMITTEE

- |                               |                                 |
|-------------------------------|---------------------------------|
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