

# International Workshop on Advanced Materials

19<sup>th</sup> - 21<sup>st</sup> December 2017

Jointly Organized by



## IWAM 2017

### Brief Introduction to IWAM 2017

Advanced materials with their exotic and tailor made properties have recently become the subject of vigorous research all over the world. These materials have the potential for wide ranging economically viable technological, industrial, engineering and biomedical applications. There is a lot of emphasis on designing materials to perform specific functions to meet the requirements of particular technologies. Material scientists are also looking into the possibility of modifying existing materials so as to functionalize them for specific applications. Much work is currently in progress trying to understand the underlying science and characterization of these materials with a view to harnessing their desired properties.

The National Institute of Science and Technology (NIST), Berhampur, India and Drexel University, Philadelphia, USA are jointly organizing the International Workshop on Advanced Materials (IWAM-2017) during December 19-21, 2017, to bring together multidisciplinary materials scientists and engineers from academia and industries to present, discuss and debate the current scientific and technological issues relating to advanced materials.

The workshop visualizes giving an exposure to its participants on different aspects of advanced materials through a set of invited lectures by experts in the field, and through contributed oral and poster presentations. Besides, there will be ample opportunity for the participants to have informal discussions on topics of mutual interest with the aim of developing future collaboration.

### About DREXEL

Founded in 1891 Drexel University is an academically comprehensive and globally engaged urban research university, dedicated to advancing knowledge and to providing every student with a valuable, rigorous, experiential, technology-infused education, enriched by the nation's premier co-operative education program. Drexel has built its global reputation on core achievements that include (1) leadership in experiential learning through Drexel Co-op, (2) a history of academic technology firsts, and (3) recognition as a model of best practices in translational, use-inspired research. Drexel is committed to being the nation's most civically engaged university, with community partnerships integrated into every aspect of service and academics.

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### International Advisory Board

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Prof. Stephen L.W. McMillan, Drexel University, USA  
Prof. T. V. Ramakrishnan, Indian Institute of Science, Bengaluru, INDIA

### INVITED SPEAKERS (Partial List)

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Prof. Xianglin Ke, Michigan State University, USA  
Dr. Amaresh Mishra, Sambalpur University, Odisha, INDIA  
Dr. Angelo Mascarenhas, National Renewable Energy Laboratory, USA  
Dr. Stefan Vajda, Argonne National University, USA  
\*to be confirmed

### FOCUS OF THE WORKSHOP

The main focus of the workshop will be in dealing with functionalized materials for applications in the following areas:

- ❖ Spintronics Materials
- ❖ Semiconductor Materials
- ❖ Multiferroics Materials
- ❖ Magnetic Materials
- ❖ Materials for Magntronics
- ❖ Photonics Materials
- ❖ Optoelectronics Materials
- ❖ Polymeric Materials
- ❖ Plasmonics Materials
- ❖ Smart Materials
- ❖ Engineering Materials
- ❖ Materials for Nanotechnology
- ❖ Biological Materials
- ❖ Materials dominated by strong correlations
- ❖ Materials for Quantum computations
- ❖ Superconducting Materials
- ❖ Materials for Energy Needs
- ❖ Materials for Thermoelectricity

### REGISTRATION FEE

Research Scholars and Students (Foreign)	USD 150
Academic staff/faculty (Foreign)	USD 300
Research Scholars and Students (Indian)	Rs. 2000
Academic staff / faculty (Indian)	Rs. 4000
Industrial Personnel (Indian)	Rs. 6000
Accompanying person (Indian/Foreign)	Rs. 2000/USD 150

The registration fee may be paid in advance: by bank draft at any nationalized bank drawn in favor of "IWAM2017" payable at Berhampur, Odisha.

N.B. There will be 20% discount in Registration fees, if there will be three delegates having same affiliation.

### IMPORTANT DATES

Last date of Receiving Abstract:	30 <sup>th</sup> September, 2017
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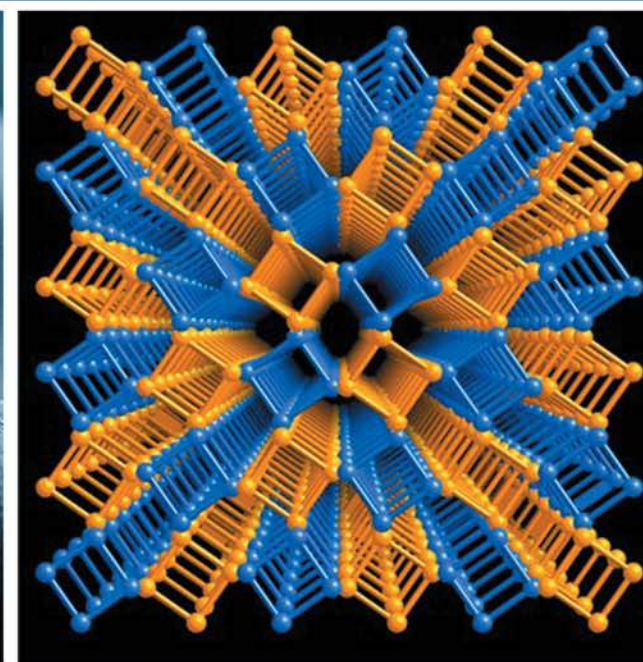
### PAPER SUBMISSION

Abstracts of original papers not more than 300 words for oral & poster presentation should be submitted online or sent as soft copy to the convener by e-mail <iwam2017@nist.edu>. The presenting authors name should be underlined.

The proceeding will be published by American Institute of Physics (AIP)

### ACCOMMODATION

Accommodation can be arranged on advanced request. The approximate charges Rs. 750 to Rs. 1500 in hotel at Gopalpur/Berhampur and Rs. 100 in campus hostel (students only)



### PATRONS

Prof. Sangram Mudali, Director, NIST, Berhampur, India

Prof. (Ms.) Geetika Mudali, Placement Director, NIST, Berhampur, India

### CONVENORS

Prof. Mihir Hota, NIST, Berhampur, India

Prof. Shyamalendu M. Bose, Drexel University, USA

### CO-CONVENOR

Prof. Sukanta K. Tripathy, Berhampur University, India

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## ABOUT BERHAMPUR

Famous for its silk, Berhampur, the major commercial town of the district of Ganjam, is a convenient base point from where a tourist can plan her/his visit to various places of interest in the area.

The sea shore town of Gopalpur located at a distance of 15 km from Berhampur, with her blue beaches attracts visitors from round the globe and offers facilities for 'Sun - Sand - Surf' to them all year round. Far from the maddening crowd, the sea side resorts make every moment a cherished experience.

At a distance of 50 km from Berhampur, amidst lush green forests is Taptapani famous for its hot spring. The hot water is channelised to a pond nearby to facilitate fascinating baths. A Panthanivas (tourist lodge) of the Odisha Tourism Development Corporation (OTDC) provides accommodation to the tourists.

The Golden triangle of Odisha comprising of Bhubaneswar, Puri and Konark attracts tourists from around the world. The city of Bhubaneswar abounds in temples built over a range of several centuries. Puri, famous for its beaches and the Jagannath temple, is a pilgrim centre for the Hindus. Only a portion of the Sun Temple at Konark (also known as black pagoda), the largest of the temples of the Golden Triangle exists today, and it is still staggering in its size. It stands out as a masterpiece in Odisha architecture.

Chilika the biggest brackish water lake famous for its bird sanctuary is on the way from Bhubaneswar to Berhampur. Sixty kms from here is a unique place called Chandragiri, a Tibetan settlement inside the heart of Odisha. Colorful flags decorated with dragons and inscribed with prayers welcome anyone under the sky.

For those interested, a one day sight seeing trip can be arranged to the nearby places of interest after the completion of the conference.

## HOW TO REACH BERHAMPUR

Those who are coming from abroad can take a flight to Bhubaneswar which is connected to Delhi, Mumbai and Kolkota by daily flights of Air India, Indigo, Jet Airlines etc. On reaching Bhubaneswar, Volunteers of IWAM-2017 at the airport will guide and arrange transport to Berhampur and Gopalpur-on-sea (places of accommodation) by road. The travel from Bhubaneswar Airport to Gopalpur-on-sea will take approximately two and half hours. Those who are traveling by train may note that Berhampur is well connected with most of the major cities of India. Transport will be arranged from Brahmapur railway station to respective places of accommodation during the conference.



## International Workshop on Advanced Materials

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### REGISTRATION FORM

Name : .....

Designation : .....

Address for Correspondence : .....

.....

Phone No. (Office) : ..... Mobile: +91- .....

Email : .....

Title of the Paper : .....

I am planing only to attend the Workshop : Yes  / No

I am planing to present a poster : Yes  / No

Accommodation required : Yes  / No

Registration fee details

DD No. & Date : .....

(To be drawn in favour of "IWAM2017" at any nationalized bank, to be payable at Berhampur, Odisha, India)

Date:

Signature

### ADDRESSES FOR COMMUNICATION

Prof. Mihir Hota, Convener (IWAM 2017)

**National Institute of Science & Technology**

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**Fax:** +91-680-2492627 **Email:** iwam2017@nist.edu

**and**

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Department of Physics

**Drexel University**

Philadelphia, PA 19104, USA

**Email:** bose@drexel.edu

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