

in Orissa 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 Orissa. 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 workshop.

### HOW TO REACH BERHAMPUR

Those who are coming from abroad can take a flight to Bhubaneswar which is connected to Delhi, Mumbai and Kolkata by daily flights of Air India, King Fisher, Indigo, Jet Airlines etc. On reaching Bhubaneswar, Volunteers of IWFM-2011 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 three 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 workshop.



Gopalpur on sea



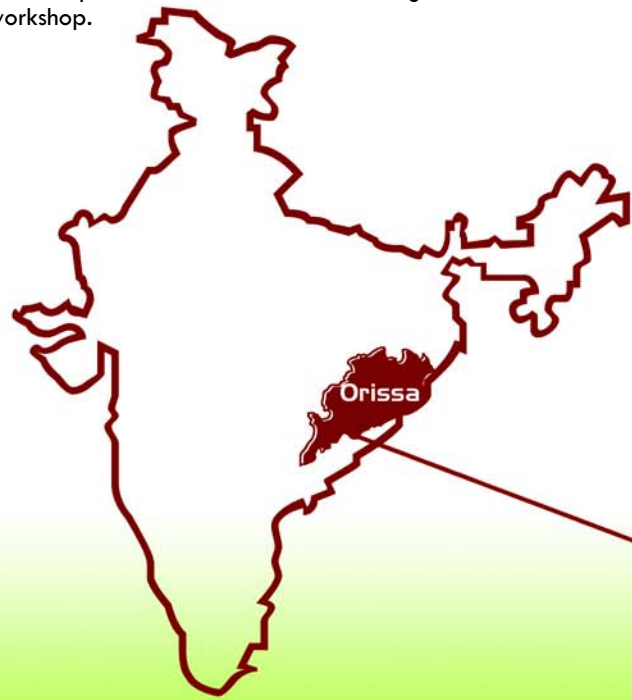
Konark Temple



Chilika Lake



Chandragiri Buddhist Temple



## INTERNATIONAL WORKSHOP ON FUNCTIONAL MATERIALS

(IWFM-2011)

DEC, 20-22,2011

BERHAMPUR, ORISSA, INDIA

### REGISTRATION FORM

Name : .....

Designation : .....

Address for Correspondence : .....

Phone No. (Office) : ..... (Residence) : .....

email : .....

Title of the Paper : .....

I plan to attend the workshop : Yes  / No

I plan to present a oral/poster paper : Yes  / No

Accommodation required : Yes  / No

Registration fee details

DD No. & Date : .....

(To be drawn in favour of "IWFM-2011" at any nationalised bank, Berhampur, Orissa, India)

Date

Signature

### ADDRESSES FOR COMMUNICATION

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# International Workshop on FUNCTIONAL MATERIALS (IWFM-2011) DECEMBER 20-22, 2011 BERHAMPUR, ORISSA, INDIA



Organised by



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## BRIEF INTRODUCTION TO IWFM-2011

The International Workshop on Functional Materials (IWFM) visualizes giving an exposure to its participants on different aspects of modern materials through a set of invited lectures by experts in the field. At the same time participants are encouraged to make oral & poster presentations of the work in which they are currently involved. Besides there will be ample opportunity for the participants to have informal discussions on topics of mutual interest with the invited speakers with the aim of developing future collaboration.

## OBJECTIVE

At present there is a lot of emphasis on designing tailor made materials to perform specific functions to meet the requirements of particular technologies. At the same time material scientists are looking into the possibility of modifying existing materials so as to functionalize them. A lot of work is currently in progress to find such materials for applications in various fields. The workshop will aim at bringing together the existing and developing knowledge in this field.

## 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 Magnotronics	Photonics Materials
Optoelectronics 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	

## TECHNICAL PROGRAMME

The technical programme will consist of six sessions spread over three days. This will include plenary lectures by invited speakers and contributed papers in the form of oral & poster presentations.

## PARTIAL LIST OF INVITED SPEAKERS (TENTATIVE)

### INTERNATIONAL

Prof. David Williams, Australian National University, Australia  
Prof. Daniel S. Pickard, National University of Singapore, Singapore  
Prof. J. Banavar, Penn State University, USA  
Prof. M. Sprinborg, University of Saarbruecken, Germany  
Prof. M. P. Das, Australian National University, Australia.  
Prof. P. Entel, University of Duisburg-Essen, Germany  
Prof. P. Jena, Virginia Commonwealth University, USA  
Prof. P. K. Kahol, Missouri State University, USA  
Prof. P. M. Ajayan, Rice University, USA

Prof. Qian Wang, Virginia Commonwealth University, USA  
Prof. R. A. Vasin, Moscow State University, Russia  
Prof. Richard Siegal, RPI, USA  
Prof. S. Satpathy, University of Missouri-Columbia, USA  
Prof. S. D. (Bhanu) Mahanti, Michigan State University, USA  
Prof. Saroj Nayak, RPI, USA  
Dr. S. Sahoo, Seagate Technologies, USA  
Prof. S. M. Bose, Drexel University, USA

### NATIONAL

Prof. Arghya Taraphdar, IIT, Kharagpur  
Prof. Brijesh Kumar, JNU, Delhi.  
Prof. Chako Jacob, IIT, Kharagpur  
Prof. Debanand Sa, BHU, Varanasi  
Prof. G. Baskaran, Institute of Mathematical Sciences, Chennai  
Prof. G. Mukhopadhyaya, IIT, Mumbai  
Prof. G. S. Tripathi, Berhampur University  
Dr. Haranath Ghosh, RRCAT, Indore  
Prof. Karuna Kar Nanda, IISc, Bangalore  
Prof. Kalobaran Maiti, TIFR, Mumbai  
Prof. N. C. Mishra, Utkal University, Bhubaneswar

Dr. Nandita Biswas, BARC, Mumbai  
Prof. Olga Bylya, Formerly Moscow State University, Moscow  
Prof. O. N. Mohanty, Former V. C, BPUT, Rourkela  
Dr. P. K. Panda, National Aerospce Laboratory, Bangalore  
Prof. Rudra Pratap, IISc, Bangalore  
Prof. Sreekantha Sil, Viswa Bharati University, Santiniketan  
Prof. S. N. Sahu, IOP, Bhubaneswar  
Prof. S. Bedanta, NISER, Bhubaneswar  
Prof. S. N. Behera, NIST, Berhampur  
Prof. T. V. Ramakrishnan, BHU, Varanasi  
Prof. V. Seshubai, University of Hyderabad

## PAPER SUBMISSION

Abstracts of original papers not more than 300 words for oral & poster presentation should be sent as soft copy to the convener by e-mail by September 15, 2011. The abstracts accepted for presentation will be intimated to the authors by October 15, 2011.

Authors should submit the full text of the papers, not exceeding six double space typed pages including figures and tables, in the form of a soft copy before December 1, 2011. Proceedings will be published by a reputable publisher like AIP (American Institute of Physics).

## REGISTRATION FEE

Registration fees which will take care of the lunch, tea, seminar material and local hospitality during the conference period are specified below:

Research Scholars and Students	(Foreign)	USD 100
Academic staff/faculty	(Foreign)	USD 200
Research Scholars and Students	(Indian)	Rs. 500
Academic staff/faculty	(Indian)	Rs. 2000
Industrial Personnel	(Indian)	Rs. 5000
Accompanying person	(Indian/Foreign)	Rs. 1000/USD 100

The registration fee may be paid in advance; by bank draft at any nationalised bank drawn in favor of "IWFM-2011" payable at Berhampur, Orissa.

## ACCOMMODATION

Accommodation can be arranged on request, which must reach the convener on or before December 1, 2011. The approximate charges are Rs.100 in Engineering College Hostels and Rs.500 to Rs.750 in nearby hotels per day. The accommodation charges will be borne by the participants.

## INTERNATIONAL ADVISORY COMMITTEE

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Prof. K. L. Chopra, Former Director, IIT, Kharagpur

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Prof. Sangram Mudali, Director, NIST, Berhampur, ORISSA  
Prof. Michel Vallieres, Head, Department of Physics, Drexel University, Philadelphia, USA

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Dr. M. N. Murty, NIST, Berhampur  
Mrs. Laura D'Angelo, Drexel University, Philadelphia

## ABOUT NIST

National Institute of Science & Technology was set up in 1996 and is being managed by the SM Charitable Educational Trust with the aim "to create Engineering minds capable of mastering the global challenges of tomorrow's technology" by promoting higher technical education. It is approved by AICTE and affiliated to BPUT. The institute campus is of more than 60 acres of land located at picturesque Palur hills about 15 kms from Berhampur and 3½ hours drive from Bhubaneswar. The institute is headed by Prof. Sangram Mudali. About 2800 students are studying in various disciplines of M.Tech, B.Tech., MCA, MBA & PGDM at NIST.

Within a short span of 14 years, NIST has produced 4 BOYSCAST scholars, 2 Full Bright scholars, 3 Samant Chandrashekar Young Scientist Awardees and more than 20 Post-Doctorate scholarships have been awarded to the institute faculty. Our faculty members have published more than 15 books and 120 international journal papers in referred journals. In 2010 NIST has got the TIFAC-CORE project on "3G/4G Communication Technologies" from DST & Industry Partners.

The institute has tied up with companies like Cadence, IBM, Infosys, Wipro, Mphasis and TCS etc. for projects and technical certification courses through various Industry-Institute interaction programmes. Very recently Cadence, National Instruments and IBM have established the Center of Excellence at NIST campus to groom the students for Industry ready.

## ABOUT DREXEL

Founded in 1891 in Philadelphia, Drexel University is a top-ranked, comprehensive university recognized for its focus on experiential learning through co-operative education, its commitment to cutting-edge academic technology and its growing enterprise of use-inspired research. With more than 23,500 students, Drexel is the nation's 14th largest private university and ranked second among national universities in the most recent U.S. News & World Report list of "Up-and-Comers."

The Department of Physics at Drexel pursues forefront research as well as training students in Physics. Its faculty members and researchers lead world-class research programs in a wide variety of disciplines, from the farthest reaches of astrophysics and cosmology, to molecular biophysics, nanoscience, and subatomic particle physics. Their national and international collaborations include among others the Double Chooz Neutrino Experiment, Kamioka Liquid-Scintillator Anti-Neutrino Detector (KamLAND), Deep Underground Science and Engineering Lab (DUSEL), Sloan Digital Sky Survey (SDSS), Large Synoptic Survey Telescope (LSST), and Meta Institute for Computational Astrophysics (MICA).

## 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. The back waters of the Blue Bay enhance the beauty of the quiet beach. 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 Orissa Tourism Development Corporation (OTDC) provides accommodation to the tourists. A pipeline drawn from the hot spring provides the natural hot water inside the bath rooms of this Panthanivas.

The Golden triangle of Orissa 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

Mr. T. R. Lenka, NIST, Berhampur  
Mr. P. K. Kar, APEX, Bhubaneswar  
Dr. S. Mahato, NIST, Berhampur  
Dr. Dilip K. Mishra, IMMT, Bhubaneswar