

International Conference on Frontiers in Materials Science & Technology

10th-12th December 2015

ICFMST-2015

BRIEF INTRODUCTION TO ICFMST-2015

The National Institute of Science and Technology (NIST), Berhampur, India is organizing an International Conference on Frontiers in Materials Science & Technology (ICFMST) during December 10-12, 2015. The Institute is situated in a picturesque background near the holiday resort of Gopalpur on sea. NIST is a premier institute of technology in India, imparting quality engineering education at the undergraduate and postgraduate levels. It is the endeavor of the Institute to expose the students and faculties to the state of the art advancements in various aspects of science and technology. The International Conference (ICFMST-2015) is an attempt to bring together multidisciplinary scientists from academia and industries to focus on the upcoming issues in advanced materials. The invited speakers are to deliver different aspects of new materials based on their current research work through a set of invited lectures. Faculty members and Student participants are encouraged to make oral and poster presentation towards fruitful discussion on specific topic of interest. ICFMST-2015 can provide solutions and implementation on global requirements on advanced functional materials.

FOCUS OF THE CONFERENCE:

The main focus of the conference will be in dealing with functionalized materials.

Topics of interest include but are not limited to:

- ❖ 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
- ❖ Polymeric Materials

REGISTRATION FEE

Research Scholars and Students	(Foreign)	USD 200
Academic staff/faculty	(Foreign)	USD 300
Research Scholars and Students	(Indian)	Rs. 1000
Academic staff / faculty	(Indian)	Rs. 4000
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 "ICFMST-2015" payable at Berhampur, Odisha.

ACCOMMODATION

The approximate accommodation charges are likely to be Rs.200 in Campus Hostels and Rs.700 to Rs.1000 in nearby hotels per day on sharing basis.

Important Dates :

- ❖ Last date of receiving Abstract : 30th September, 2015
- ❖ Date for acceptance of abstracts : 15th October, 2015
- ❖ Last date of Registration : 25th November, 2015
- ❖ Last date of receiving Full Paper : 1st December, 2015
- ❖ Last date for accommodation : 1st December, 2015

PARTIAL LIST OF INVITED SPEAKERS (TENTATIVE)

Prof. S. Nozaki, University of Electro-Communication, JAPAN
Prof. Paolo Milani, INFN, ITALY
Prof. Kenneth Dawson, University College of Dublin, IRELAND
Dr. L. Montes, MINATEC, FRANCE
Prof. David Williams, Australian National University, AUSTRALIA
Prof. S. M. Bose, Drexel University, USA
Prof. K. H. Chen, Academia Sinica, TAIWAN
Prof. Hendrik Zipse, Ludwig Maximilian University of Munich, GERMANY
Prof. Bernd Engels, Julius Maximilian University of Würzburg, GERMANY
Prof. G. Frenking, Philipps-Universität Marburg, GERMANY
Prof. Bo-Cheng Wang, Tamkang University, TAIWAN
Prof. Shyi-Long Lee, National Chung Cheng University, TAIWAN
Prof. Sidheswar Maikap, Chang Gung University, Taiwan.
Prof. Joao Ventura, University of Porto, Portugal
Prof. E. D. Jemmis, IISc, Bangalore
Prof. G. Narahari Sastry, IICT, Hyderabad
Prof. Ashok K. Mishra, IIT, Chennai
Prof. G. Rajaraman, IIT, Mumbai
Prof. Chako Jacob, IIT, Kharagpur
Prof. Satyabrata Jit, BHU, Varanasi
Prof. G. S. Tripathi, BU, Berhampur
Prof. K. Thygarajan, IIT, Delhi
Dr. P. K. Panda, NAL, Bangalore
Prof. Rudra Pratap, IISc, Bangalore
Prof. T. V. Ramakrishnan, BHU, Varanasi
Prof. B. Srinivasan, IIT, Chennai
Prof. Navakanta Bhat, IISc, Bangalore
Prof. S. N. Sahu, NIST Berhampur
Dr. Arghya Taraphder, IIT, Kharagpur
Prof. O. N. Mohanty, Former V.C. BPUT
Prof. K. K. Nanda, IISc, Bangalore
Prof. Bikramjit Basu, IISc, Bangalore
Prof. Naresh Bhatnagar, IIT, Delhi
Dr. V. N. Mani, CMAT, Hyderabad
Prof. B. K. Panigrahi, IGCAR, Kalpakkam
Prof. A. K. Tyagi, IGCAR, Kalpakkam
Dr. C.M. Das, BARC, Mumbai
Prof. Kolabaran Maiti, TIFR, Mumbai
Dr. S. Bedanta, NISER, Bhubaneswar

PATRONS

Prof. Sangram Mudali, Director
Prof. Geetika Mudali, Placement Director

CONVENER

Dr. Sukanta K. Tripathy

ADDRESS FOR COMMUNICATION

National Institute of Science & Technology

Palur Hills, Berhampur-761008, Odisha, India

Phone: Ph:+91-680-2492421/422

Mobile : +91-9439521141 / 9437621540 / 9437055009

Fax : +91-680-2492627 Email : icfmst.2015@nist.edu

Web : www.nist.edu/icfmst2015

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 <icfmst.2015@nist.edu>. The presenting authors name should be underlined.

Manuscript after review will be published by reputed publisher

Organized by



NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY

Palur Hills, Berhampur, ODISHA -761008, INDIA

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 Odisha 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 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 Kolkata by daily flights of Air India, Indigo, Jet Airlines etc. On reaching Bhubaneswar, Volunteers of ICFMST-2015 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 Conference on Frontiers in Materials Science & Technology

10th-12th December 2015 Berhampur, Odisha

REGISTRATION FORM

Name :

Designation :

Address for Correspondence :

.....

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

Email :

Title of the Paper :

I am planing only to attend the Conference : 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 "ICFMST-2015" at any nationalized bank, to be payable at Berhampur, Odisha, India)

Date:

Signature

ADDRESS FOR COMMUNICATION

Prof. Sukanta K. Tripathy, Convener (ICFMST-2015)

National Institute of Science & Technology

Palur Hills, Berhampur-761008, Odisha, India

Phone: Ph:+91-680-2492421/422 **Mobile :** +91-9439521141

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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 CONFERENCE

The main focus of the conference will be in dealing with functionalized materials. Topics of interest include but are not limited to:

Spintronics Materials	Engineering Materials
Semiconductor Materials	Materials for Nanotechnology
Multiferroics Materials	Biological Materials
Magnetic Materials	Materials dominated by strong correlations
Materials for Magnotronics	Materials for Quantum computations
Photonics Materials	Superconducting Materials
Optoelectronics Materials	Materials for energy needs
Plasmonics Materials	Materials for Thermoelectricity
Smart Materials	Polymeric Materials

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.

PAPER SUBMISSION

Abstract of original papers not more than 300 words for oral and poster presentation should be sent as soft copy through email by September 30, 2015. The abstracts accepted for presentation will be intimated to the authors by October 15, 2015.

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, 2015. Proceedings will be published in a peer reviewed journal.

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Prof. S. N. Sahu, NIST Berhampur
Dr. Amarnath Sen, CGCRI, Kolkata
Prof. O. N. Mohanty, Former V.C. BPUT
Prof. K. K. Nanda, IISc, Bangalore

REGISTRATION FEE

Registration fees, which will take care of the lunch, tea, conference material, etc. during the conference period, are specified below:

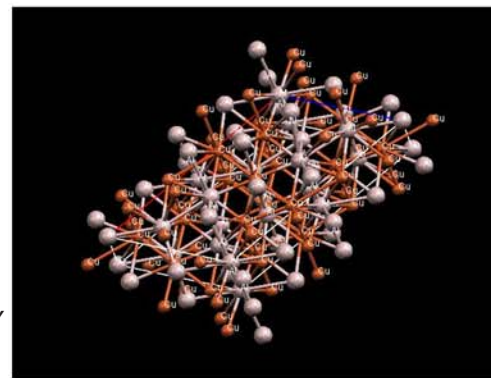
Research Scholars and Students	(Foreign)	USD 200
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Prof. Naresh Bhatnagar, IIT, Delhi
Prof. A. K. Tyagi, IGCAR, Kalpakkam
Prof. Ajaya Gupta, UGC-DAE Consortium, Indore
Dr. V. N. Mani, CMAT, Hyderabad
Prof. B. K. Panigrahi, IGCAR, Kalpakkam

ADVISORY COMMITTEE

Prof. S. Nozaki, University of Electro-Communication, JAPAN
Dr. B. B. Rath, NRL, Washington DC, USA
Prof. Paolo Milani, INFN, ITALY
Prof. Kenneth Dawson, University College of Dublin, IRELAND
Dr. L. Montes, MINATEC, FRANCE
Prof. Volker Deckert, Jena University, GERMANY
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Prof. M. Spirinborg, University of Saarbruecken, GERMANY
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Prof. Bo-Cheng Wang, Tamkang University, TAIWAN
Prof. Shyi –Long Lee, National Chung Cheng University, TAIWAN
Prof. Keiji Morokuma, Emory University, USA & Kyoto University, JAPAN
Prof. E. D. Jemmis, Indian Institute of Science, INDIA
Prof. G. Narahari Sastry, Indian Institute of Chemical Technology, INDIA
Prof. G. Rajaraman, Indian Institute of Technology, INDIA

PATRONS

Prof. Sangram Mudali, Director, NIST, Berhampur

Prof. Geetika Mudali, Placement Director, NIST, Berhampur

LOCAL ORGANIZING COMMITTEE

Prof. S. N. Sahu, NIST, Berhampur
Prof. S. P. Pati, NIST, Berhampur
Prof. J. Majhi, NIST, Berhampur
Prof. T. Sahu, NIST, Berhampur
Prof. M. N. Murty, NIST, Berhampur
Prof. Ajit K. Panda, NIST, Berhampur
Prof. Sukant. K. Tripathy, NIST, Berhampur (Convener)
Prof. M. Reza, NIST, Berhampur
Mr. M. Suresh, NIST, Berhampur
Mr. Bhawani S. Pattnaik, NIST, Berhampur
Mr. Shom P. Das, NIST, Berhampur
Dr. Prabhat K. Sahu, NIST, Berhampur
Dr. Mihir Hota, NIST, Berhampur

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, awarded by "A" Grade by NAAC, UGC, India 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 3000 students are studying in various disciplines of M.Tech, B.Tech., MCA, MBA & PGDM at NIST.

Within a short span of 19 years, NIST has produced 4 BOYSCAST scholars, 2 Fulbright scholars, 3 SamantChandrashekhar 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 refereed journals. In 2010 NIST got the TIFAC-CORE project on "3G/4G Communication Technologies" from DST & Industry Partners.

A Center for Nano Science & Technology has been setup under the leadership of Prof. S. N. Sahu (Renowned Scientist in Nano Science) since last two year. Researcher from different Institute / University from India as well as abroad are regular visiting the center for collaborate work.

Dr. Manabendra Patra, NIST, Berhampur
Dr. Duryodhan Sahu, NIST, Berhampur
Dr. P. S. Ramasreekanth, NIST, Berhampur
Dr. Tapano K. Hota, NIST, Berhampur
Dr. Pandaba Patro, NIST, Berhampur
Dr. Debashis Panda, NIST, Berhampur
Dr. Laxminarayan Sahoo, NIST, Berhampur
Dr. Pallab Kar, APEX, Bhubaneswar
Mr. Purnendu Mishra, NIST, Berhampur
Dr. Bishnukar Nayak, NIST, Berhampur
Mr. Chinmaya Sahu, NIST, Berhampur
Mr. Sukanta K. Swain, NIST, Berhampur
Mr. Sumanta K. Patnaik, NIST, Berhampur