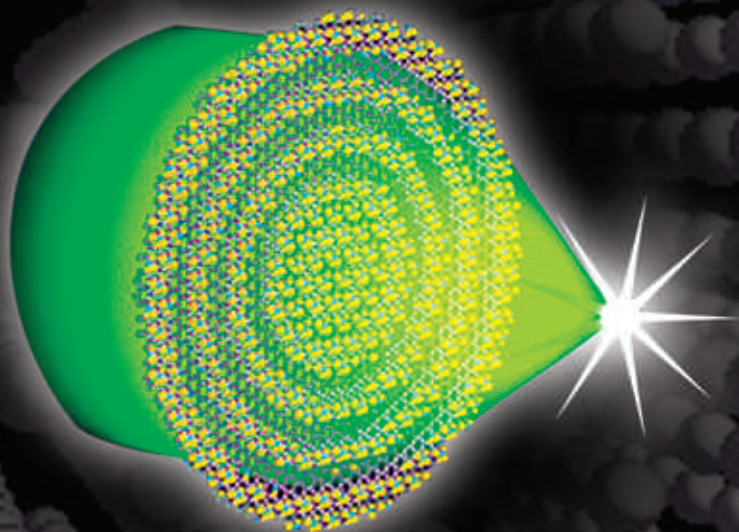


International Conference
on

SMART MATERIALS & APPLICATIONS (ISMA - 2016)



15 - 17, December 2016

BHUBANESWAR, INDIA

Organized by



Department of Physics

SIKSHA 'O' ANUSANDHAN UNIVERSITY

Bhubaneswar - 751 030

www.soauniversity.ac.in / isma2016

About the University

Siksha 'O' Anusandhan (SOA) University, Bhubaneswar declared u/s 3 of UGC Act, 1956 is a leading university in India offering professional programmes in the disciplines of Engineering, Medicine, Dental Science, Nursing, Pharmaceutical Science, Biotechnology, Management, Law, Hotel Management and Agricultural Sciences. Spread over 4 campuses in 125 acres of land with 2, 68, 658 sq. meter built-up area in the capital city of Bhubaneswar, the university provides conducive academic ambience through state-of-the art infrastructures including 33 academic blocks for 9 constituent institutes, 4 research centers, 29 well equipped labs, 16 conference Halls & 2 Auditoriums with modern facilities, e-library, 1Gpbs internet connectivity, fully Wi-Fi campus and 24X7 security surveillance. With over 1300 highly qualified faculty members, 140 full time research scholars at the Ph. D and post doc level and a student population over 10,000, the university offers a vibrant atmosphere for teaching - learning, research and socially inclusive extension activities through all its undergraduate and 58 post graduate programmes. Research initiatives in the basic as well as interdisciplinary areas particularly in 18 identified thrust areas have produced visible dividend yielding **2233** publications under SOAU affiliation in reputed scopus indexed international journals of good impact factor. A periodical bench marking of this university with top class institutions/ universities has brought in innovative methods of academic governance. Today S'O' A University has emerged as one of the fastest growing and preferred institution of higher learning in India. According to recent publication of the National Institute Ranking Framework (**NIRF**), Ministry of Human Resources Development (**MHRD**), Govt. of India, this university has been awarded the **rank 16A** in the University category among 20 top universities in India. It is the only University in the State of Odisha to have achieved such accolade. For all around achievements and consistent performance over the years, it has been reaccredited with '**A**' Grade in 2015 by the National Assessment & Accreditation Council (**NAAC**) and ISO-9001:2000 certification by the International Accreditation Organization (**IAO**): URS, UK.

About Bhubaneswar

The capital city of Bhubaneswar- popularly known as the **Temple City** - located in Eastern India at 20.13 N Latitude & 85.50 E longitude is hardly 4 km South- West of Biju Patnaik International Airport, 10 km South- West of the Bhubaneswar Railway Station and 8 km West of the State Secretariat. The city with an area of about 135 sq. km is 45 meter above the sea level. A cozy and comfortable atmosphere prevails in Bhubaneswar in the month of December with the city temperature moderately fluctuating from 15^oC to 20^oC. Besides being one of the attractive educational hubs in the country, the quintessential temple city is a rich repository of ancient art, sculpture and archaeological monuments and has all along been the tourists' sine qua non. The major sites of historical, architectural, archaeological and religious importance in and around Bhubaneswar include the Lingaraj Temple, Raja Rani Temple, Twin Hills of Khandagiri - Udayagiri, the Shanti Stupa (Dhauri) known as White Pagoda, Nandan Kanan Zoo, the Sun Temple at Konark known as Black Pagoda, the famous Jagannath Dham at Puri- the Abode of Lord Jagannath, Balabhadra & Subhadra, and the picturesque lake 'Chilka'- Asia's largest Brackish Water Body etc.

About the Conference

The benefits from development and exploitation of advanced materials particularly smart materials have increasingly been felt in recent years. The inherent intelligence, self sensing and memory effects etc induce capability of these materials to change their physical and chemical properties like shape, viscosity and elastic moduli in response to external stimuli like pressure, temperature and electric field etc. With the ability to respond autonomously to changes in their environment, the smart materials offer a simplified approach to control various materials and system characteristics and hence find numerous applications in all spheres of human activities ranging from hydrospace to aerospace. In view of importance and their wide ranging potential applications, the conference aims to provide a global cross disciplinary forum to deliberate and discuss the present and future issues in major sectors such as material processing, characterization, modeling, simulation, properties, performances and

device fabrication by experts/ eminent researchers/research scholars from across the country and abroad.

Scope of the Conference

The objective of this conference is to bring together experts from academic institutions, industries and research organization from across the globe to share their knowledge, expertise and experience in the emerging trends related to Smart materials processing and characterization and indulge in the analysis of functionally graded materials/tailor made materials to meet the ever increasing demands of industry and modern society at large. The conference is structured as follows: plenary lectures followed by parallel sessions. The plenary talks will be delivered by eminent scientist/researchers of international repute. Each parallel session will start with invited talks on a specific topic followed by contributed papers. The papers shall be invited from prospective authors from academic institutions, industries and R & D organizations.

Theme of the Conference

- Shape Memory Alloy
- Magnetic Materials
- Superconducting Materials
- Dielectric & Ferroelectric Materials
- DMS & Multiferroic Materials
- Semiconducting Materials and Devices
- Carbon and carbon based composites
- Thin film and Nanomaterials
- Energy and Environmental Materials
- Bio-materials
- Sensors and Actuators
- Functional Materials
- Optical Fibre and Meta-materials

Paper Submission

Prospective authors are invited to submit their extended abstract within one page on or before 15th August 2016 which shall be reviewed by the board of guest editors. The full text papers including results, tables, figures and references of the accepted abstracts ONLY shall be invited later which will be published in a Scopus indexed peer-reviewed international journal.

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Important Dates (Last Date)		Registration Fees	
Submission of Abstract	15.08.2016	International delegates:	200 USD
Acceptance of Abstract	30.08.2016	National delegates:	5000 INR
Submission of full paper	30.11.2016	Research Scholar/Students:	2000 INR
Online Registration	30.11.2016	Delegates from industry & corporate sector:	5000 INR





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