About the Institute

ree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST) is an Institute of National Importance with the status of a University. The joint culture of medicine and technology that the Institute pioneered more than three decades ago has come of age and gained unprecedented acceptance in India. Imbued with an inclination to venture into less-trodden domains, the Institute focuses on patient care of high quality, technology development of industrial significance and health research studies of social relevance. The emphasis is on development of facilities less readily available elsewhere in the country such as interventional radiology, cardiac electrophysiology, presurgical evaluation and surgery for epilepsy, microsurgery and deep brain stimulation for movement disorders, new biomedical devices and products, evaluation of medical devices to global specifications, new academic programmes and global public health networks. The Institute has three wings - the Hospital, Biomedical Technology Wing and the Achutha Menon Centre for Health Science. This uniquely poised Institute has a dedicated team of scientists working in the field of material science which span from nanostructures for sensing, diagnosis, therapy etc. to development of biomedical devices. This institute is the first in the country to start the research based on application of laser for patient care with the support from Department of Atomic Energy. Currently many materials and methods have been developed for photodynamic therapy, photothermal therapy. nanosensors for bioanalytes of clinical importance and many drug delivery systems. SCTIMST is the pioneer to start many laser based clinical procedures like percutaneous laser disc decompression, Laser ablation of osteoid osteoma, Laser treatment for varicose vein, Laser treatment for bronchial and easophageal cancers and hemangioma and many more in the country.

About the Department

ain objective of the department is to take up and ensure research in the field of nanomaterials for Bionanophotonics. The lab's main areas of research themes include development and application of nanomaterials, mainly bionanomaterials in the field of MR, CT and optical imaging, biosensing, drug delivery and photodynamic and photothermal therapy. We also take care of all laser based activities of the institute, both therapeutic and diagnostic and other biomedical application. Our interest also expands to the use of Spectroscopic techniques like Raman, Fluorescence and IR mapping and imaging for the early diagnosis of various diseases and the classification based on different pathologies using these techniques on the hypothesis that the concept of optical pathology will be a practical tool in the near future.

Thiruvananthapuram







he history of Thiruvananthapuram dates back to the 10th century AD. The city and several other places in the district occupy an important place in ancient tradition, folklores and literature of the State of Kerala. Thiruvananthapuram (Trivandrum) district (Kerala, India), holds a number of tourist spots. The entire tourism package of the state such as hill stations, back waters, beaches, lagoons, and wild life sanctuaries are present in Thiruvananthapuram district, reflects the beauty of the state Kerala. "Its unique geographical position and peculiar physical features have invested Kerala with a distinct individuality." Hence it has played a vital role in the commercial and cultural history of India. Kerala has been describes "as the favorite child of nature." Like Kashmir in the north, Kerala in the south is famous for its breath-taking natural beauty.

With its evergreen mountains, dense forests stately palms, swift flowing rivers, extensive backwaters and blue lagoons, it looks like a fairyland. This atmosphere of beauty and peace has nurtured religion and art in Kerala and enabled her to become a precious gem in the necklace of Indian culture. Indian poets of eminence have showered their praises for the abundance of its peppers, the fragrance of its sandal and the wealth of its coconuts. No part of India is so widely known or has played so important a part in world history as Kerala.

Patrons

Prof. Ashutosh Sharma Secretary, DST

Dr. Vijaya Raghavan Secretary, DBT

International Advisory Committee

Prof. Samuel Achiflue, Washington University, USA
Prof. Ajayan Pulickal, Rice University, USA
Prof. K. Ariga NIMS, Japan
Prof. Don McNaugton, MONASH University, Australia
Dr. Ganesh D Schockalingam

Université de Reims Champagne-Ardenne, France

Prof. Peter Reiss, University of Joseph Fourier-Grenoble, France

University of Joseph Foundar-Grenoble, France

Prof. Hedi Mattoussi, *The Florida State University, USA*Prof. Paras N. Prasad.

The State University of New York, USA

Prof. Vincent M. Rotello, *College of Natural Sciences, USA*Prof. Taeghwan Hyeon, *Seoul National University, Korea*Prof. Paul Mulvaney, *The University of Melbourne, Australia*

Prof. Y. Negishi, Tokyo University, Japan

National Advisory Committee

Exec. Vice President, KSCSTE
Director, CSIR-NIIST, Trivandrum
Director, IISER, Trivandrum
Director, RRCAT, Indore
Director, IIST, Trivandrum
Director, CSIR-CLRI, Chennai
Director, RGCB, Trivandrum
Vice Chancellor, Kerala University, Trivandrum

http://www.ispan.in

Abstract Submission Guidelines

An abstract of 1 page in MS word format of 12 font size (Times New Roman) and 1.5 spacing with word count not exceeding 500 should be submitted by 20th August 2015. The abstract should include title of the paper, name and affiliation of authors including email address and contact numbers.

National Organising Committee

Dr. A. Ajayaghosh (CSIR-NIIST)

Dr. T. Pradeep (IITM)

Dr. George Thomas (IISER)

Dr. P.K. Gupta (RRCAT)

Dr. A. Jayakrishnan (IITM)

Dr. Vijayamohanan K Pillai (CSIR-CECRI)

Dr. V. U. Nayar (IISER)

Dr. V.P. N. Nampoori (CUSAT)

Dr. A.K. Gupta (NIMHANS)

Dr. S. Ganesan (Anna University)

Dr.Shantikumar V Nair (AIMS)

Dr. V.P. Mahadevan Pillai (Kerala University)

Dr. M.R. Anantharaman (CUSAT)

Dr. C.P. Sharma

Dr. V.R. Nair (IREL)

Dr. P.P. Chandrachoodan (BRNS)

Dr. C. Murali Krishna (ARTREC, Mumbai)

Dr. M.L.P. Reddy (CSIR-NIIST)

Steering Committee

Chairman
Director, SCTIMST

Co-Chairman

Head, BMT Wing, SCTIMST

Vice Chairman

Assoc. Head, BMT Wing, SCTIMST

Organizing Secretary

Dr. R.S. Jayasree

Dept. of Biophotonics and Imaging, SCTIMST

Conveners

Dr. K. Sreenivasan, Laboratory for Polymer Ananlysis, SCTIMST

> Dr. P.R. Harikrishna Varma, Bioceramics Lab, SCTIMST

Dr. M. Jayabalan

Polymer Division, SCTIMST

Treasurer

Dr. M.R. Rekha

Biosurface Technology, SCTIMST

About the Symposium

On 20th December 2013, The United Nations General Assembly 68th Session proclaimed 2015 as the International Year of Light and Light-based Technologies. Highlighting the importance of light and light-material interaction, we are organizing International Symposium on Photonics Applications and Nanomaterials during this year. This symposium will be an interdisciplinary forum for collaboration and learning among researchers, clinicians, and industrial partners in fields related to Nanosciences, biophotonics and biomaterials, and also imaging applications. The goal of this symposium is to bring together researchers, academicians and experts from all over the world to interact and exchange their knowledge and experience, as well as their research developments in a stimulating multidisciplinary forum of experts. This event will take place over three days, 28-30 October 2015, and will include both oral and poster presentations with a focus on the above topics.

The symposium will be held in the city of scenic beauty in South India, Trivandrum. We look forward to seeing you in Trivandrum!

Who should attend?

This conference is aimed at researchers in Academia and Industry as per the topics of the symposium themes. Marketing as a discipline and as a business function is very vital for both the Academics and Industry. The conference aims at welcoming all the researchers, faculty and Industry professionals from early stage research to leading-edge applications.

Registration

Students: Rs. 3000, Research Scholars / Scientists / Faculty: Rs. 5000, Foreign Delegates: US\$ 400

Registration fees include Registration kit, Proceedings, Lunch and Dinner during symposium dates.

Important Dates

Abstract Submission Deadline
August 20, 2015

Intimation of Acceptance of Abstract
September 1, 2015

Early Bird Registration September 15, 2015

Date of the Conference October 28-30, 2015

Tentative Speakers

Prof. CNR Rao, JNCASR, Bangalore, India

Prof. Paras Prasad, The State University of New York at Buffalo. USA

Prof. Samuel Achiflue, Washington University, USA

Prof. Ayyappanpillai Ajayaghosh, NIIST, Trivandrum

Prof. Katsuhiko Ariga, NIMS, Japan

Prof. Rohit Bhargawa, University of Illinois, USA

Prof. Bong Rae Cho, Korea University, Korea

Prof. S. Ganesan, Anna University, Chennai, India

Prof. Itaru Hamachi, Kyoto University, Japan

Prof. Nobutaka Hanagata, NIMS, Japan

Prof. Delville Marie Helene, BICM Chemistry, France

Prof. Don McNaughton, MONASH University, Australia

Prof. Yuichi Negishi, Tokyo University, Japan

Prof. Tarasankar Pal, IIT, Kharagpur

Prof. Thalappil Pradeep, IIT, Chennai, India

Prof. Ganesh Schockalingam, Reims France

Prof. George Thomas, IISER, Trivandrum, India

Prof. Siva Umapathy, IISc, Bangalore, India

Symposium Themes

Under the encompassing theme of Materials and Light based technologies for life, ISPAN-2015 will focus on Recent Advancements in materials, nanophotonics and nanobiophotonics, covering the following major fields

- Materials: Molecular Probes, Molecular and functional contrast agents, Metal Nanopartilces, biomaterials and tissues, bio-materials & composites, graphene, polymers, nanomaterials and nanodevices, bio-compatibility, bioderived nanostructures.
- Nano-biophotonics: bio-nanotechnology, nanoparticles, intracellular nanosensing. Intracellular and in vivo imaging
- Sensing platforms: plasmonics, biosensors, optical sensing, fiber sensors, point- of-care diagnostic and sensing systems.
- Microscopic and spectroscopic techniques:
 Biospectroscopy, Infrared, fluorescence and Raman-based methods, multiphoton microscopy, optical trapping.
- Imaging techniques: Optical Imaging, optical coherence tomography, photo- and opto- acoustic imaging
- Diagnostic and Therapeutic Applications: minimally invasive laser procedures, photodynamic therapy, photothermal therapy, drug delivery, photodiagnosis, clinical applications

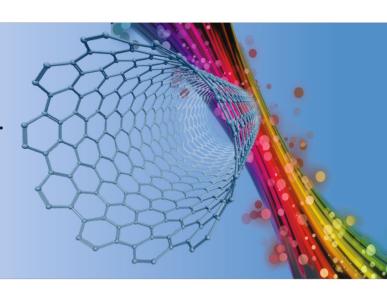
Address for Correspondence

Dr. RS Jayasree

Organising Secretary, ISPAN 2015

Dept of Biophotonics and Imaging, Biomedical Technology Wing Sree Chitra Tirunal Institute for Medical Sciences & Technology Poojappura, Thiruvananthapuram 69012 E-mail: ispantrivandrum2015@gmail.com http://www.ispan.in





International Symposium on Photonics Applications and Nanomaterials



28-30 October 2015



Organised by

Sree Chitra Tirunal Institute for Medical Sciences & Technology

Thiruvananthapuram 695012