



National Conference on Recent Trends in Microwave Techniques and Optical Communication

4 - 5 February 2015

Organized by
Department of Physics



THE IIS UNIVERSITY

deemed to be a university under section 3 of UGC Act., 1956
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DEAR COLLEAGUES

It is our immense pleasure and privilege to invite you to the National Conference on 'Recent trends in microwave techniques and optical communication' being organized by the Department of Physics, The IIS University, Jaipur on 4th-5th February, 2015. The main objective of the conference is to provide a platform to exchange information on research outcome in concerning fields and areas of research among different research groups. The conference will draw attention of young researchers towards the new areas of applications of microwave techniques, new trends and limitations of the microwave communication systems and possibilities of adopting different techniques of optical communication systems. The conference will build up new research directions by establishing the opportunities in this field, including the potential of optical communication systems to replace microwave communication systems, in view of radiation hazards reported by the scientific community. The conference will provide a platform for the young faculty members and research scholars to present their research and to share their ideas with experts from industry and academia, so as to obtain validation to their findings and/ or to make necessary changes in the road map of their research.

SPECIFIC OBJECTIVES

- ❑ To consolidate research being carried out in different areas on microwaves and optical communication in different institutions and disseminate the same through this conference.
- ❑ The Conference aims to promote high standards of research and training in the areas related to various microwave techniques, problems with microwave communication systems and potential of optical communication etc. by way of knowledge sharing.
- ❑ To enhance efficiency in research and the development of new techniques.
- ❑ To strengthen the approach of institution oriented collaborative research.

EXPECTED OUTCOME

- ❑ During the last decade, research in Physics has witnessed development of various new areas. The Physics educators now have the challenge to assimilate the new topics in the curriculum of the subject. One such subject is "Recent Trends in Microwave Techniques and Optical Communication". The topic is important in view of application of microwaves for dielectric studies of materials, on one hand, which depends on their molecular behaviour, molecular interaction, structural changes in them and influence of physical conditions, such as temperature, moisture, frequency of radiation etc. on these properties and the role of microwaves for communication purposes on the other hand. Recently radiation hazards of microwaves to human have been reported, which has compelled the scientists to develop efficient techniques based on optical communication because radiation at light frequencies is less harmful. The conference has been planned with this background to bring Physicists from all over India, together at the same platform to evolve a strategy to bring out new areas of Physical research to be considered as priority areas by the students of Physics and Engineering as well.
- ❑ The conference will provide an opportunity to Post Graduate Science / Engineering students, research scholars and teachers to interact with the eminent scientists and educators in the fields of Microwave Physics and Engineering, Optics and Photonics, Optical Fibre Engineering etc. and to learn about latest developments in the field.

MAJOR THEMES OF THE CONFERENCE

- ❑ **Application of microwaves in communication**
 - ◆ Guided transmission
 - ◆ Antennas
 - ◆ Satellite Communication
- ❑ **Application of microwaves in Structure Analysis**
 - ◆ Application to chemicals
 - ◆ Application to biological samples
 - ◆ Agricultural products and foods
 - ◆ Soil analysis and remote sensing
 - ◆ Dielectric spectroscopy of materials
- ❑ **Optical communications**
 - ◆ Optical fibres
 - ◆ Photonics
 - ◆ Satellite communication at optical frequencies



ABOUT JAIPUR

Jaipur, the Pink City of India, is the starting point for the visitors of Rajasthan. The Capital of Rajasthan, Jaipur, casts an unusual spell on the traveler with its royal palaces, forts and monuments, revealing a historic past of chivalrous warriors, aristocratic royal ladies, art & craft, literature and science. Handicrafts like miniature paintings, textiles, blue pottery and jewellery make it a shopper's paradise as well.



ABOUT THE IIS UNIVERSITY

The IIS University (IISU), Jaipur is a cosmopolitan and vibrant deemed-to-be-a-university under the section 3 of the UGC Act, 1956 and one amongst the first thirty eight deemed universities in India placed under category A by Ministry of Human Resource Development, Government of India. With over 3500 students and 208 staff members, the University offers UG, PG and Doctoral programmes in the faculties of Arts, Science, Commerce, Home Science, Social Sciences Management and Computer Science & IT. It is known for excellence in imparting meaningful education to students and to encourage them to think innovatively. It particularly focuses on empowering women to face challenges of life with confidence and also to provide creative leadership in times to come.



An abstract of about 300-500 words including the title, author (s), and address typed in MS Word in single spacing should be submitted by 12 January 2015.

- Title MS Word in Arial (Size 16 Points) in single spacing
- Affiliation MS Word in Arial (Size 12 Points)
- Authors MS Word in Arial (Size 14 points)
- Abstract MS Word in Arial (Size 12 points) in single spacing

The abstract should include the name of theme at the bottom of the page. Paper presentation in the conference will be permitted only when the participant has registered for the conference.

No abstract will be taken into consideration for pre-conference publication without registration fee. On the spot papers will not be accepted.

A hard copy of the abstract should be submitted along with a CD or through e-mail at mtoc@iisuniv.ac.in.

Abstract Submission



PRESENTATION

Oral Presentation

- Ten minutes time will be given to each speaker.
- Presentation to be prepared in MS Power Point and to be brought on a CD or USB memory stick.
- LCD projector facility will be provided for making presentations.

Poster Presentation

- Space will be provided for poster (1x1 metre) display.
- Poster should be legible enough to be viewed from a distance of 4 feet

AWARDS

- Best oral presentation
- Best poster presentation



VENUE

DAY-I & II

International School of Informatics & Management (ISIM)

Sector 12, Mahaveer Marg,
Mansarovar, Jaipur 302020

REGISTRATION



Category of the Participant	Registration up to 25 th January 2015	Registration after 25 th January 2015	On Spot Registration
• Faculty Members	Rs. 1000/-	Rs. 1200/-	Rs. 1400/-
• Industry Experts	Rs. 1500/-	Rs. 1800/-	Rs. 2000/-
• Students/Research Scholars	Rs. 700/-	Rs. 800/-	Rs. 900/-

A request for Registration, in the prescribed form along with the registration fee, may be sent to The IIS University by 25th January 2015.

The Registration Fee is payable either by DD in favour of "The IIS University, Jaipur" or in cash. No Cheques or money order will be accepted.

Registration fee includes: Delegate kit, Lunch and High Tea

- Photocopy of the Registration Form may be used
- The Registration Form can also be Downloaded from the University website www.iisuniv.ac.in
- Acceptance of form is subject to remittance of registration fee
- Full papers will be peer reviewed. The selected papers will be published in **Journal of Science and Technology (IISU-JOST) ISSN 2319-2607**. This Journal deals with issues pertaining to various disciplines in the field of Science and Technology.

TRAVEL & ACCOMMODATION



- No travel reimbursement will be made by the organizers
- Accommodation can be booked on request. The payment for the same will be borne by the participants.



IMPORTANT DATES

- Abstract Submission deadline 12th Jan. 2015
- Acceptance of Abstracts 18th Jan. 2015
- Paper submission deadline 25th Jan. 2015

ADVISORY COMMITTEE

Prof. D.C. Dubey, Prof. M.L. Sisodia, Prof. G.S. Raghuvanshi, Dr. S.N. Joshi, Prof. O.P.N. Calla, Prof. R.J. Sengwa, Prof. Deepak Bhatnagar, Dr. V.K. Saxena, Prof. R.K. Bansal, Prof. N.K. Jain, Prof. M.K.Sharma and Prof. Subhash Garg

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