



**Centre for Lasers and Photonics
Indian Institute of Technology Kanpur
Kanpur- 208016**

30 Years of Photonic Crystals – the Indian Research Scenario

Sept.21-23, 2017

INTRODUCTION

The research on Photonic Crystals owes its initiation and acceleration to the two phenomenal research papers (by Sajeev John and Yablonovitch) published in 1987. The focus has evolved a lot in the thirty years since then, and this symposium is an effort to take stock of the on-going research in India and re-set the focus towards device development. The technical program will be specifically useful for scientists and senior students who are working in the areas of Photonic crystals (and Metamaterials to a limited extent), related to micro/nano fabrication, modeling of nano-phonic structures, characterization and device applications. The course is also designed to cater to the needs of scientists from R&D labs.

OBJECTIVE

In recent years, the research area of Nanophotonics has gained importance in view of the anticipated applications in device-level architectures. The present Symposium will have talks on the on-going research in all the sub-topics of Photonic nanostructures, such as on dielectric photonic crystals, plasmonic photonic crystals, photonic crystal waveguides, photonic crystal fibers and metamaterials. **This symposium is not for beginners and Masters students.** The emphasis will be placed on imparting advanced knowledge in the above mentioned areas with lectures by leading experts in India.

COURSE CONTENTS

Lectures will cover the following topics:

- Dielectric photonic crystals.
- Plasmonic nano-structures.
- Photonic crystal waveguides and fibers.
- Photonic crystal based devices.
- Fabrication and properties of Metamaterials.
- Computational work on Photonic nanostructures.

LOCAL ORGANIZING COMMITTEE

Dr. R.Vijaya, Dr. S.Anantha Ramakrishna, Dr. Harshawardhan Wanare, Dr. Shilpi Gupta, Dr. Pradeep Kumar, Dr. J. Ramkumar, Dr. Kumar Vaibhav Srivastava, Mr. Ummer K.V, Mr. Dipak Rout, Mr. Govind Kumar, Ms. Arpita Halder, Ms. Suchita, Ms. Pratyasha Sahani.

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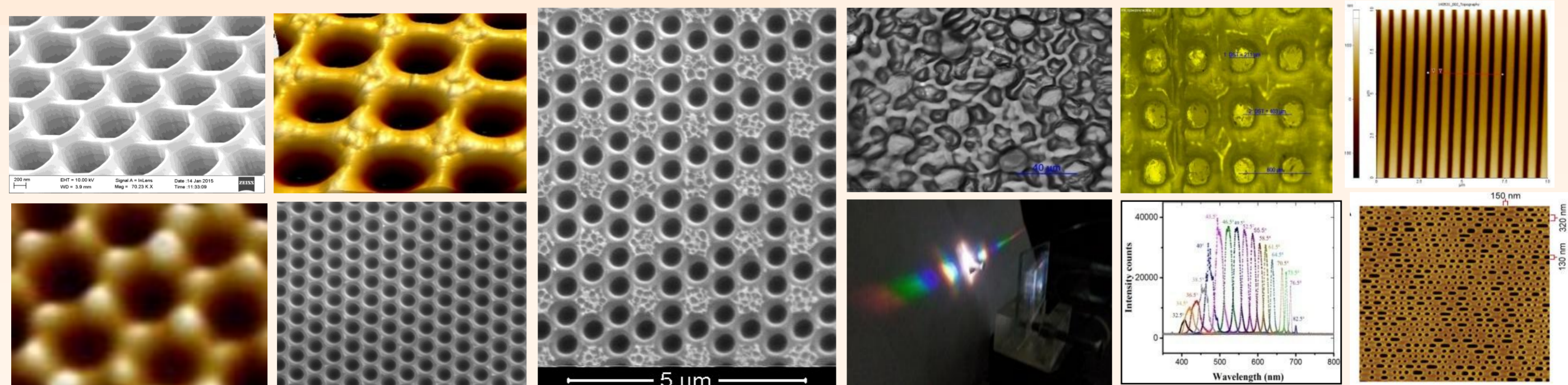
**Convener
Prof. R. Vijaya**

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Pictures related to Photonic crystal research at IIT Kanpur