



IAS, Bangalore



INSA, New Delhi



NASI, Allahabad

**Science Academies' Lecture Workshop on  
"Lasers and their Applications"  
20<sup>th</sup> and 21<sup>st</sup> January, 2018**

*Organized by*



**Indian Women Scientists' Association(IWSA),  
Plot No 20, Sector 10A, Vashi, Navi Mumbai 400703**

A **Two Day Lecture Workshop on Lasers and their Applications** for Graduate and Post Graduate level students, Researchers and Teachers will be held on 20<sup>th</sup> and 21<sup>st</sup> January 2018 by Indian Women Scientists' Association (IWSA) at their premises at Vashi, Navi Mumbai. The workshop is being sponsored by the Indian Science Academy, Bangalore(IAS); Indian National Science Academy, New Delhi (INSA) and National Academy of Sciences, India (NASI), Allahabad. Prof. R.Nagarajan, F.A.Sc, F.A.N.Sc, F.N.A/. Emeritus Professor, CEBS, is the Convener and Dr. Lalitha Dhareshwar, Vice President, IWSA is the Coordinator of the workshop.

The LASER (Light Amplification by Stimulated Emission of Radiation) was invented in 1960 by Theodore Maiman. When the first working laser was reported, it was described as "A solution looking for a problem." But Laser's distinctive properties such as a high degree of coherence, very narrow spread in wavelength, directionality, high intensity have lead to a wide variety of applications. Today, lasers are everywhere: from research laboratories at the cutting edge of quantum physics to medical clinics, supermarket checkouts and the telephone network. Lasers are available today over a wide ranging wavelengths, from infrared to X-rays and power levels of Milliwatts (CW Lasers) to Petawatts (Ultra short pulse Lasers). Applications range from gentle exploration of biological cells to exploration of universe by generating in the laboratory, the extreme conditions prevalent in the stars. The two day Lecture Workshop would be covering the fundamentals of Lasers and their applications, topical subjects relevant to graduate and post graduate courses. Participants would also be introduced to some of the exciting frontier areas.

**Applications are invited from undergraduate & post-graduate students, researchers and faculty from colleges of Mumbai and Navi Mumbai. THERE IS NO REGISTRATION FEE.** Interested students and Faculty may download application form from IWSA website: [www.iwsa.net](http://www.iwsa.net). **Application should be forwarded through the Head of the institution, and submitted along with a brief statement (not more than 250 words) as to how the Lecture Course will help the applicant and send to: Coordinator, "Workshop on Lasers and their Applications", by email to [Laseriwsahq@gmail.com](mailto:Laseriwsahq@gmail.com), AND by hard copy to the address given above, by 30<sup>th</sup> December, 2017.** Selected candidates will be informed by **10<sup>th</sup> January, 2018**. The candidates must provide email and mobile numbers so that they can be informed of the selection at the earliest.