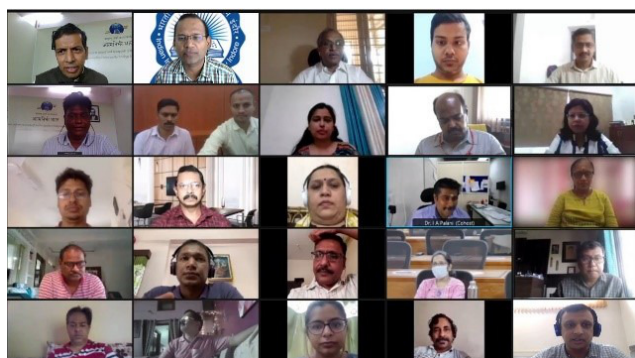


N.1: Online workshop on “Creating Lab-to-Land Ecosystem: Challenges & Opportunities”

Incubation Centre-RRCAT and IIT Indore jointly conducted an online workshop on “Creating Lab-to-Land Ecosystem: Challenges & Opportunities”, on August 14, 2021. The workshop was inaugurated by Dr. S. V. Nakhe, Director, RRCAT and Prof. N. K. Jain, Director (Officiating), IIT Indore. The workshop aimed to bring together researchers, engineers, industry experts, students, and scientist to create awareness about Lab-to-Land Ecosystem: Challenges & Opportunities in Indian context. As present world is being driven by rapidly evolving technologies and intellectual property, there is an increased demand of transformation of R&D from Lab-to-Land, which is basically the research adopted by industry, start-ups, new products, etc. This Lab-to Land transformation is only possible through a sustainable ecosystem, where the challenges are converted to opportunities through R&D. Dr. I. A. Palani, Dr. Ruchi Sharma from IIT Indore and Dr. C. P. Paul from RRCAT organized the workshop.

During the inaugural address, Dr. S. V. Nakhe, Director, RRCAT emphasized on the importance of such workshop to bring holistic change in the technology transfer ecosystem. He encouraged the technology developers and entrepreneurs to join this mission and said, “India needs a smooth adoption of the technologies developed in the laboratories by the industries/ startups to address many burning national problems including unemployment. These efforts are in-line with Atma Nirbhar Bharat initiatives of Government of India and is a way for India to become developed nation.”



Screenshot of online workshop “Creating Lab-to-Land Ecosystem: Challenges & Opportunities”.

Addressing to the participants, IIT Indore officiating director Prof. N. K. Jain said that the world is being driven by rapidly evolving technologies and intellectual property and hence, there is an increased demand of transformation of R&D from Lab-to-Land. “Lab experiments and innovation must be converted into socially relevant products and services, IIT Indore & RRCAT will jointly provide the ecosystem for the benefit of the common man,” he added.

The resource persons included experts and veterans of their field. Prof. N. Ramesh Babu from IIT Madras imparted the importance of industry and institute interaction for technology development, while Prof. Prabuddha Ganguli, CEO, IPR

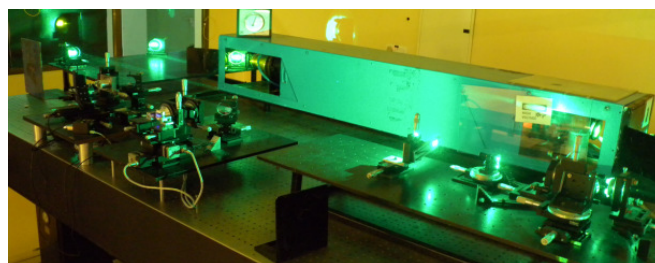
Vision & Adjunct Faculty, IIT Jodhpur shared his wide experience on Transform, Translate and Transfer, “Thoughts to Tangibles”. Prof. Prashant Salwan, IIM Indore explained the business strategies for market driven product ecosystem and Prof. B. V. Phani, IIT Kanpur guided the participants on the challenges in Lab-to-Land ecosystem.

The panel discussion on the topic “Creating Lab-to-Land Ecosystem” brought out widespread awareness about the challenges of the journey from Lab-to-Land. More than 400 participants from across the country registered for this online workshop.

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N.2: Incubation Centre-RRCAT extends utilization of FBG inscription facility to Indian industries

To create opportunities for incubation of DAE technologies and to promote technology transfer, leading to a developed product/ viable commercial product, Incubation Centre-RRCAT (IC-RRCAT) is taking various initiatives. Recently, IC-RRCAT started the incubation services for various application development encouraging industries and academia to take the technology to broader public domain. The utilization of the fiber Bragg grating (FBG) inscription facility is one among the various services being offered by IC-RRCAT.



Fiber Bragg grating inscription facility developed at RRCAT.

For the above, an indigenous copper vapor laser system-based FBG inscription facility developed at Fiber Sensor and Optical Spectroscopy Section (FSOSS), RRCAT is being used. As shown in figure, this system comprises of indigenously developed copper vapor laser, its second harmonic and FBG inscription set-up. Such a facility is developed for the first time in India and has been operating successfully since past 4-5 years. Over the years, FBG fabricated on this facility have been successfully tested for various applications, like -temperature sensing, strain sensing, etc. In recent times, Indian industries are importing these FBGs to cater many novel applications.

Hence, Indian industrial partners, MSME and start-ups were invited by IC-RRCAT to come up with well-defined and commercially viable proposals for developing FBG sensors and systems by utilizing the FBG inscription facility at RRCAT, Indore. Many industries showed confidence on this indigenous technology and expressed their interest in utilizing the facility for various sensing applications including