

Reports from symposia, workshops and conferences

Lasers and Applications

Bhabha Atomic Research Centre and BRNS have jointly organized a 4-day national level symposium on lasers (NLS-30) during 19-22 January at Anushaktinagar, Mumbai. The symposium had 26 invited talks on diversified themes, including Physics and Technology of Lasers, Laser Spectroscopy, Ultrafast Lasers and Lasers in Nuclear Industry. More than 160 contributory papers were presented in the symposium. In addition, 15 young researchers presented their dissertation work, which was reviewed by a panel of judges drawn from various institutes of national repute. The inaugural event, which was held in hybrid mode, was attended by a host of dignitaries, which included Dr A. K. Mohanty, Director, BARC (Guest of honour), Prof. S. Ramakrishnan, Director, TIFR (Chief Guest) amongst others. The keynote address was delivered by Prof. G. Ravindra Kumar, Distinguished Professor, TIFR.



Book of Abstracts released by the Chief Guest.

The symposium was held in hybrid mode, which included Dr A. K. Mohanty, Director, BARC (Guest of honour), Prof. S. Ramakrishnan, Director, TIFR (Chief Guest) amongst others. The keynote address was delivered by Prof. G. Ravindra Kumar, Distinguished Professor, TIFR.

Pulsed Power Applications



Proceedings of the workshop released during the inaugural event.

A 3-day workshop on Pulsed Power Technology and Applications (WSPPTA-2021) was organized by Bhabha Atomic Research Centre during 25-27 November 2021 at its Visakhapatnam campus. Around 100 participants attended the workshop, which was held under a public outreach program, as part of Azadi Ka Amrit Mahotsav activities in the Department of Atomic Energy to mark 75th year of Indian Independence. The workshop organized 15 curriculum lectures by BARC scientists, two plenary talks, five invited talks and a visit to twelve laboratories of BARC Visakhapatnam. Proceedings of the workshop was released in the form of a handbook during the inaugural event.

Trends in Vacuum Science

The Indian Vacuum Society, BARC and BRNS have jointly organized a scientific program on recent trends in Vacuum Science and Technologies (VSTAA-2022). Applications of Vacuum Science in particle accelerators, electron beam generation for thermal and non-thermal applications were covered in extensively in the program. The event was attended by 200 participants. A book of abstracts consisting of invited talks of the program was released. Book chapters based on Beam Technology development in BARC was published in 3 volumes on topics such as Laser, Electron Beams and Pulsed Power Technology was released during the inaugural session. The symposium was inaugurated by Dr. A. K. Mohanty, Director, BARC (Chief Guest) and Dr. Shashank Chaturvedi, Director, IPR (Guest of Honour). Dr. S. Krishnagopal, Head, IADD, BARC, delivered the key note address on "High Intensity Proton Accelerators in India". Speakers from globally acclaimed scientific research institutes such as CERN, ITER, ESRF, KEK, Nagasaki Univ., Singapore Univ., Pfeiffer, as well as the constituent units of DAE and non-DAE bodies have made presentations on latest developments in vacuum science and its applications.

Dr. R. B. Grover, Member Atomic Energy Commission, delivering a talk at VSTAA-2022.

