

**N.3: DAE-BRNS Workshop: SCRFWS-2017**

A workshop on "Technology Development of Superconducting Radio Frequency Cavities (SCRFWS-2017)", supported by Board of Research in Nuclear Sciences (BRNS), DAE and Indian Society for Particle Accelerator (ISPA), was organized at Raja Ramanna Centre for Advanced Technology, Indore during 18 - 21 July, 2017.

The Guest of Honour for inaugural function of the workshop was Dr. P. A. Naik, Director, RRCAT. Shri S. C. Joshi, OS & Head, PLSCD, RRCAT and Chairman of the Workshop delivered the inaugural talk on "Superconducting RF Cavity Development at RRCAT". Shri Mahendra Lad, Head, RFSD and Secretary of the Workshop welcomed the invitees and participants.

Total of around 100 participants from various research institutes including BARC, VECC, RRCAT and IUAC attended the workshop.

The workshop covered various aspects of science and technology involved in development of SCRF cavities. Around 19 invited talks in the areas of pulsed and CW proton linac physics design, SCRF cavities materials science, low beta and high beta SCRF cavities mechanical design, fabrication, dressing, processing and testing at 2K, 325 MHz and 650 MHz, SCRF systems, cryogenics etc. were given by experts from different institutes. During the workshop, visits to SCRF cavity fabrication and processing facility, cryogenics and VTS facilities were arranged for the participants. In the concluding session, certificates were distributed to the participants.

The workshop was very useful, informative and interactive for researchers working in SCRF cavities related activity.



*Participating delegates with organizers of SCRFWS-2017.*

*Reported by:  
M. Lad (ladm@rrcat.gov.in)*

**N.4: HBNI Scholars' Day celebrated at RRCAT**

At present, there are about 100 research scholars (internal and external) registered under Ph. D. program of HBNI at RRCAT. HBNI Scholars' Day is celebrated to have a better interaction among the students and the faculty members as well as to know the talents of the scholars. This year the program was organised by the scholars on 24<sup>th</sup> November 2017 under the guidance of HBNI-RRCAT officials and the Director, RRCAT. The celebration had two parts: scientific session and cultural evening. In scientific session, Dr. D. D. Bhawalkar, Founder Director, RRCAT, Indore was invited to deliver a talk on "Challenges in Indian Science and Technology". The talk presented a brief overview of the various R & D projects undertaken by the Department of Atomic Energy in the area of lasers and accelerators. He shared his experience and advised the younger generation to strive to transform our country into a developed nation. This was followed by a poster session by the Ph. D. scholars to present their recent work. It provided an opportunity to the Ph. D. scholars for an active interaction with the scientific community of RRCAT. It helped the scholars to explore avenues for collaborative work with other groups.



*Dr. P. A. Naik, Director, RRCAT welcoming Dr. D. D. Bhawalkar, Founder Director, RRCAT.*

The cultural evening was a bouquet of colourful dance performances, melodious songs and a drama. It included dance drama *Shiv Tandav Stotra*, a Rajasthani dance *Ghoomar*, and a contemporary dance *Newtons laws of Karma*. Finally, a comedy drama titled, *Til kaa Taad*, written by Shri Shankar Shesh was staged. It showcased the hardship of the common man to get a rented accommodation. The efforts by Ph. D. scholars demonstrated that they are doing equally good in academics and extra-curricular activities and it was appreciated by all. The HBNI scholars' day was concluded with the National Anthem.

*Reported by:  
C. P. Paul (paulcp@rrcat.gov.in)*