

DPKBCCC REPORT

Report on the activities related to DPKBC Celebration

1. An excellent article authored by Professor B K Srivastava, a PhD student of Dr D P Khandelwal, has appeared in the February, 2021 issue of the Bulletin and another article, written jointly by another student of Dr Khandelwal Professor H D Bist and Professor L P Verma would be appearing in the March issue. Both the articles are concerned with the life and works of Dr Khandelwal. Some more articles have been received on such theme and would be forwarded for publication.

The most difficult problem the DPKBCC Committee is facing is in collecting the biographical materials for writing the biography of Dr Khandelwal. We are quite at dark about his early life till 1942 as well as his life in Karachi in the period 1942 to 1947. Any help from anybody in this regard would be highly appreciated.

2. An integrated questionnaire for undertaking a survey to estimate the actual status of lab based physics education at UG and Plus 2 levels, is under preparation.

Right now we have to plan how we shall involve the RCs to elicit responses from a good number of stakeholders, so that sample size is large.

The responses to the questionnaire and their statistical analyses is very much important for future planning of lab based education, keeping the provisions of NEP 2020 in mind.

3. The " Online Competition in Physics Practical at Plus2 Students" has been organised successfully by DPKhandelwal Forum for Science Education, initiated by RC15 and CSC, Midnapore, through four tests -mock test1, mock test 2, final test and Viva Voce through Socrative App. At the end 20 toppers have been identified.

In the preparatory stage, the 500 registered students performed six experiments in the domains of mechanics and GPM, using household materials and inexpensive devices with online instructions from their teachers. 20 teachers efficiently managed the entire activity spanned over five months.

Each topper and each teacher has been given an Home Physics Lab Kit costing around Rs1500/-. Professor M R Roy, ex principal of Midnapore College and an ardent admirer of Dr Khandelwal collected required money for the Kit.

It is expected each topper along with his/ her peers, under the supervision of their teachers, could perform more than 30 experiments, related to their HS syllabus in the domains of heat, light, electricity and electronics, using the kit.

The teachers of DPKFSE desire to share these experiences with the IAPT members from different RCs for popularization of doing experiments using Home Physics Lab Kit while staying at home.

DPKBCCC may plan an online meeting of the representatives of all the RCs to discuss how similar activities, designed and tried by Dr Khandelwal himself, can be organized at the RC level.

4. As scheduled, the KSSS (The Khandelwal Stage Science Show) was successfully organized on National Science Day, Feb 28 and March 1, 2021 from an online platform provided by the SVV Vishwavidyalaya, Indore. The Chief Guest was Dr. Upinder Dhar, Vice Chancellor, SVV Vishwavidyalaya, Indore. Those who presented their stage show (through pre-recorded videos) were, Dr B N Das, Prof B Chakradeo, Dr P K Dubey and Dr R Bhattacharjee on Feb 28 and Prof Sow Chong Haur (Singapore National University), Prof H C Verma, Prof Ananthkrishnan, Prof Y K Vijay and Prof Sarmistha Sahoo on March 1 .

Those who participated in theprogramme included Prof Vijay Singh,Prof K N Joshipura, Dr SC Samantaand Prof S B Welankar.

The DPKBCC Committee is indebted to Dr U Sharma, Dr S K Sharma, Dr O P Sharma and Dr P K Dubey along with Mr Parvez and Mr Shrikant for successful management of the online platform for the two -day event.

This is the first time in the history of IAPT, a large number of senior IAPT members have joined together on a single platform to demonstrate their beautiful physics experiments for explaining scientific concepts. We know there are many more senior and not so senior members who can aptly present their shows for attracting students in the field of science education in this way. IAPT should think loudly how basic science can be communicated using these talents. On behalf of DPKBCCC, we can organise KSSS involving other experts whom we could not accommodate this time, in near future.

Dr Khandelwal was fond of interdisciplinary experiments also. In this centenary year we can organise events dedicated to Dr Khandelwal to demonstrate the efficacy of such experiments for science communication.

5. Dr Khandelwal designed the NSEP PartC and the NGPEPartC. NGPE PartC is still continued but NSEP PartC is not. Professor Tyagiji is thinking aloud to revive NSEP PartC. This revival would be a perfect act of paying homage to the founder of IAPT.

Our recent experience of organising CKMM Workshop in RC15 demonstrates that IAPT can organise a similar workshop for the state and national 1% toppers, from online platform with larger number of participants for a longer time span.

Discussion is going on to fructify these events, we are hopeful. We know there are many IAPT members who are used to design software based UG physics experiments. They will have to come forward with their experiments to participate in this workshop as Resource Persons.

Both the programmes would be certainly national events, to be materialised at the RC level. Beauty of these activities is that practically we do not need any money for them!

To arrive at concrete decisions on the above activities, a meeting of the three implementation committees of DPKBCC Committee - IC1, IC2 and IC3 has to be convened very soon.

Subhash Chandra Samanta,
Convener, DPKBCC Committee.