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The Indian Phys

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Founded in 1934, the Society has the following objectives :

to promote the progress and uphold the cause of physical sciences both in pure and applied branches, in India

to encourage and publish important researches in physics and other associated branches of knowledge, e.g. astronomy, geophysics, meteorology, etc.

to publish books, journals, proceedings and transactions relating to original researches in pure and applied physics and other associated sciences

to organise meetings and conferences for reading and discussing papers submitted to the Society, advising government and other bodies on matters affecting the physical sciences and to cooperate with national scientific organisations in all matters of national importance

to secure and administer funds, grants and endowments for furtherance of scientific research and

to undertake and execute all other acts which shall assist in and promote the usefulness, aims and purpose of the society.

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President's Column

It is an honour to write this column as President of The Indian Physical Society (IPS) which was founded in the year 1934 by Prof. Meghnad Saha. IPS currently has around 950 life members and we should all work hard to make this society an active body to promote physics education and research in India. Last year, we have celebrated the Platinum jubilee year of the formation of IPS and on 15th July 2011 we are organizing a seminar on **Physics Education and Basic Research** with eminent scientists, to conclude this celebration. Many academic programs were organized over last two years to mark the Platinum Jubilee celebration. A **National Workshop-cum-Seminar on School Physics (WSSP-09)** was organized at South Point High School, Kolkata during June 1-3, 2009. An **International Conference on Physics-Biology Interface (ICPBI-09)** was organized at Saha Institute of Nuclear Physics (SINP) during December 13-16, 2009. A one day meeting on **“Recent trends in research on Atomic, Molecular and Optical (AMO) Physics”** was held on March, 17, 2010 at Indian Association for Cultivation of Science (IACS). All the three programs were well attended and were highly successful.

Young Physicists' Colloquium (YPC), which has now become the landmark event of IPS, has remained quite popular among young physics researchers in India for the last 27 years. The 28th Young Physicists' Colloquium (YPC-2010) was held at SINP during August 19-20, 2010 and 16 papers were selected for presentation. Ten presentations were from leading basic research institutes and six presentations were on work done in the universities. Mr. N. Bhargava Ram of Tata Institute of Fundamental Research was awarded the first prize. The second prize went to Mr. Suman Sinha of Jadavpur University. Joint third prize were given to Mr. Mrinal Dutta of IACS and Mr. Bhusan N. Joshi of Bhabha Atomic Research Centre. The present issue of Physics Teacher contains the manuscripts of these four prize winning papers of YPC-2010. This issue also has an article written by Prof. J.K. Bhattacharjee based on his IPS annual Lecture given earlier. The second article in this issue of Physics Teacher is written jointly by Prof. Arup Roy and Prof. Debapriyo Syam.

A new council of IPS has recently taken over the job of running the society for the next two years and we are planning to take few steps so that IPS, in general and this quarterly publication Physics Teacher, in particular remains vibrant and forward looking. We look forward to your suggestions and support in this endeavor.

Milan K. Sanyal

Call for submission of experimental proposals for beam-time at Variable Energy K-130 room temperature Cyclotron

Variable Energy Cyclotron Centre

Department of Atomic Energy
Sector-1, Block-AF, Bidhan Nagar, Kolkata – 700 064

The room temperature K-130 Variable Energy Cyclotron at Kolkata has been delivering uninterrupted intense light ion beams for experimental use after extensive modernization for over one year. Protons are being accelerated in the energy range of 7 MeV to 20 MeV with typical beam currents of around 10 microAmps, while 5 microAmps of alpha beams are available in the energy range of 30 MeV to 60 MeV on a round the clock basis and are being used extensively in various fields of research; mainly nuclear physics, material science, radio-chemistry, isotope production, etc.

Several sophisticated detector facilities have been developed by the in-house experimental groups for meaningful utilization of the beamtime, viz., the LAMBDA high energy photon spectrometer, 4-pi gamma multiplicity filter, 4-pi charged particle detector array, neutron time-of-flight detector array and a large volume neutron multiplicity detector, for nuclear physics experiments. These large and sophisticated detector systems are complete with their dedicated front-end electronics and Data Acquisition Systems.

Scientists who are interested to make use of the VEC K-130 beamtime and the facilities are required to submit scientific proposals for experiments. Each proposal will be evaluated by an expert committee and subsequently beamtime will be allotted depending on the scientific merit of the proposal and availability of beamtime. Complete experimental proposals in the prescribed format are to be submitted by e-mail: beam_time@vecc.gov.in

For further clarifications, please contact: Dr. Sudhee Ranjan Banerjee, Secretary, VEC Users' Committee, e-mail: srb@vecc.gov.in, Tel : +91-33-2318 2307, Fax : +91-33-2334 6871.

The approved proposals from universities may be considered for support under CRS by the UGC-DAE-CSR, Kolkata centre. The support includes fellowship, travel and contingency. The university users are requested to contact Dr. S. S. Ghugre, UGC-DAE-CSR, Kolkata (e-mail: ssg@alpha.iuc.res.in, mob. 9831037171) for further details regarding the support.

Please visit the webpage of VECC (www.vecc.gov.in) for downloading the proforma for submission of proposals and other relevant details.

Dr. R. K. Bhandari
Director, VECC

INDIAN PHYSICAL SOCIETY

(Estd. 1934)

The First Society ever established in India to foster education and research in physical Sciences in the country and publishing for the last 52 years,

PHYSICS TEACHER,

The quarterly journal of the society

YOUNG PHYSICISTS' COLLOQUIUM 2011

President and Council of the Indian Physical Society
have the pleasure of inviting you to the
29th Young Physicists' Colloquium at the

**Lecture Hall-I, Main Auditorium,
Saha Institute of Nuclear Physics, Kolkata**

on

August 18-19, 2011

The Inaugural Session is scheduled
at

10-15 AM on August 18, 2011

Awards and certificates will be presented to the participants in
the Valedictory Session on August 19, 2011 at the end of the presentations.

Detailed programme will be available on the opening day at the venue.