

**Report on One Day National Webinar on “Energy Crisis: Recent Advancement in Solar Energy Harnessing and Nuclear Energy Production ”****Date: 16.10.2020****Mode: Online**

The one Day National Webinar on “Energy Crisis: Recent Advancement in Solar Energy Harnessing and Nuclear Energy Production” was conducted by the department of Physics of Shahid Matangini Hazra Govt. General Degree College for Women on October 16, 2020, in online mode. The webinar brought together experts, researchers, professionals and students to discuss critical issue related to global energy crisis and latest advancement in solar and nuclear energy technologies.

Programme Overview :

The seminar began with the inauguration speech of the Principal, Dr. Bijoy Kirshna Roy, of the college. He talked about the importance of this kind of seminar for the awareness among the people. He specially mentioned to enhance the awareness among the people not to waste energy when the whole world is under the situation of energy crisis. He congratulated the speakers for their research work and welcomes on behalf of the college.

Programme Presentation Session :**Session-1**

In this session, Dr. Saikat Chakraborty, Research Associate, Nuclear Physics Group, Inter-University Accelerator Centre, Delhi, India, presented his lecture on “The walk through the quantum world of nuclei”. Mr. Mahadeb Pal, Head, Department of Physics, introduced the speaker and welcomed him for his lecture. Dr. Chakraborty discussed on the future of nuclear energy, its safety and sustainability in India. In his presentation Dr. Chakraborty recent development in nuclear reactor design and role of nuclear energy in reducing carbon foot print to our environment.

Session-2

Mr. Sayan Bag, Assistant Professor, Department of Physics, introduced and welcomed the speaker of this session, Dr. Monojit Bag, Assistant Professor, Department of Physics, IIT Roorkee, India. Dr. Monojit Bag spoke on “Recent trend in photovoltaics: Advantages and challenges of new generation solar technology”. He discussed the latest advancements in photovoltaic cells including perovskite solar cells and their potential to revolutionize the solar energy structure. He showed how the efficiency has been increased over the time by using advanced modelling of perovskite cells. The stability of these cells has also increase as Dr. Bag mention in his lecture .

Principal

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Discussion :

A beautiful discussion session was held after the lecture of Dr. Bag. In the discussion session students interacted with Dr. Chakraborty and Dr. Bag on future aspect and opportunities on the research on these topics and they encouraged the students and ask the students to work on these topics in future. The teachers of the college from different departments are also took part in the discussion session. At the end a feedback form was sent for the audience and Mrs. Piyasi Biswas, Assistant Professor, Department of Physics, concluded the programme with a vote of thanks.

Conclusion :

The Webinar successfully highlighted the role of nuclear and solar energy as a solution to the global energy crisis. The webinar showed the importance of interdisciplinary collaborations and integration of advance technologies to build up unconventional, sustainable power generation centres in future. This webinar also provided a very nice platform to the students to understand about the modern research work. Department of Physics is thankful to the College Authority for giving permission to organize this webinar on online mode. Special thanks to Our Principal Sir for his continuous support.

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