

### KHARAGPUR COLLEGE

Inda, Kharagpur, Paschim Medinipur, West Bengal, India,721305



National WEBINAR

# Advancement of Plasma Physics and Nanoscience

Organised by

### The Department of Physics

30th June, 2020 10.30 am onwards

#### **Resource Persons**



Dr. Mukti Ranjan Jana Scientific Officer - G Neutral Beam Injection Group Institute for Plasma Research Gandhinagar



Dr. Pintu Bandyopadhyay Associate Professor Institute for Plasma Research Gandhinagar, Gujarat



Dr. Kuntal Chatterjee Assistant Professor Department of Physics Vidyasagar University Midnapore - 721102



Dr. Samir Kumar Giri Assistant Professor Department of Physics Kharagpur College Kharagpur - 721305



Dr. Sanjib Sarkar Assistant Professor Department of Physics Alipurduar College Alipurduar - 736122

Registration is free and open from 24th June 10.00 am up to 29th June 10.00 pm Link for registration: https://forms.gle/ngy5mtqLULePUfZ78

E certificate will be provided through registered e-mail within one week from the webinar.

**Organising Committee** 

#### Chairman

Dr. Bidyut Samanta Principal, Kharagpur College Patron in Chief Prof.(Retd) Anjan Chaki President, Governing Body Kharagpur College

Organizing Secretary
Dr. Ritwik Saha,
Assistant Professor & Head,
Department of Physics, Kharagpur College

#### Convener

Dr. Jyotirmoy Pramanik Associate Professor, Department of Physics Kharagpur College

Jt. Secretary: Sri Debasish Aich, Assistant Professor, Department of Physics, Kharagpur College

Jt. Secretary: Dr. Tanika Kar, Assistant Professor, Department of Physics, Kharagpur College

Jt. Convenor: Sri Rudra Narayan Mondal, Assistant Professor, Department of Physics, Kharagpur College

**Members**: Dr. Samir Kumar Giri, Sri Mihir Das, Assistant Professor, Department of Physics, Kharagpur College

Smt. Parbati Basu, Sri Pankaj Patra, Guest Teacher, Department of Physics, Kharagpur College

#### **Important information & links**

Participants are requested to join the webinar through the you tube link:

#### https://youtu.be/dLmMzJ5LcY8

registered participants willing to get E certificates are required to fill up feedback form to be provided at the end of the webinar

E certificates will be provided through registered e-mail within one week from the webinar.

For more information contact webinarphysics 2020@gmail.com ph no: 7003659637, 8670030318

For updates please join the WhatsApp group via the link: <a href="https://chat.whatsapp.com/HKQFCIDKdEW9auwvfchRUI">https://chat.whatsapp.com/HKQFCIDKdEW9auwvfchRUI</a>

## **Programme Schedule**

30th June, 2020

Inaugural Session			
Time			
10.30-10.40	Welcome address by Dr. Jyotirmoy Pramanik, Associate Professor, Department of Physics & Convener,		
	Webinar organising committee		
10.40-10.50	Inaugural speech by Dr. Bidyut Samanta, Principal, Kharagpur College & Chairman of the Webinar organising		
	committee		
10.50-11.00	Speech by Prof. Anjan Chaki, President, Governing Body, Kharagpur College & Patron in Chief, Webinar		
	organising committee		
Technical Session			
	Topic of lecture	Speaker	
	Lecture-I	Dr. Mukti Ranjan Jana	
11.00-11.45	Physics & Technology of Ion	Associate Professor, Homi Bhabha National Institute (HBNI)	
	Acceleration System for Fusion	Scientific Officer – G, Institute for Plasma Research, Gandhinagar	
	Research.		
	Lecture-II	Dr. Pintu Bandyopadhyay	
11.45-12.30	Physics of Dusty Plasmas: Recent	Associate Professor, Institute for Plasma Research, Gandhinagar	
	Experiments		
	Lecture-III	Dr. Kuntal Chatterjee	
12.30-13.15	Decreasing Dimensionality –	Assistant Professor, Department of Physics, Vidyasagar University	
	Increasing Functionality: A step to Care	grand gr	
	our Environment.		
	Lecture-IV	Dr. Samir Kumar Giri	
13.15- 14.00	Magnetism at the Nanoscale Level	Assistant Professor, Department of Physics, Kharagpur College	

Dr. Sanjib Sarkar

Vote of thanks by Dr. Ritwik Saha, Assistant Professor & HOD Physics & Secretary, Webinar organising

Assistant Professor, Department of Physics, Alipurduar College

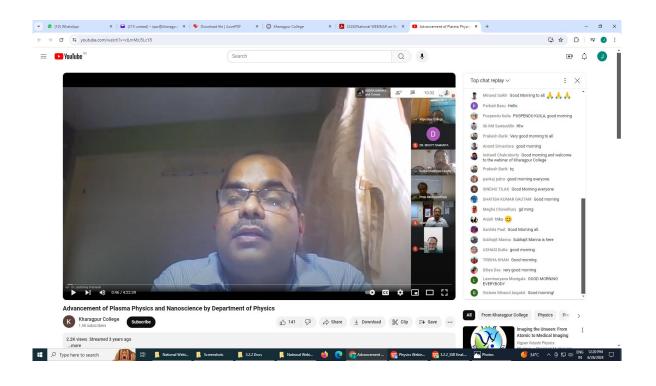
Lecture – V

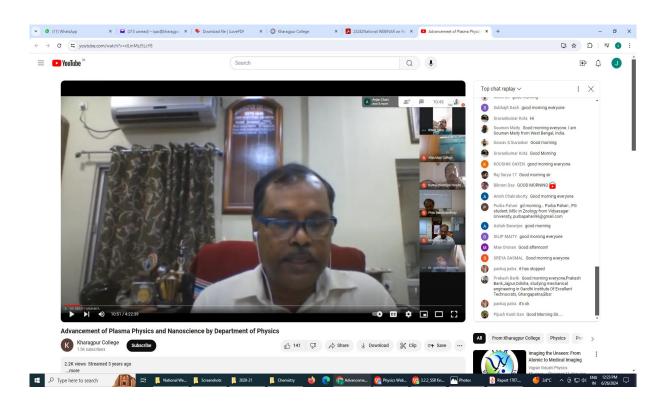
Quantum Mechanics: Origin to

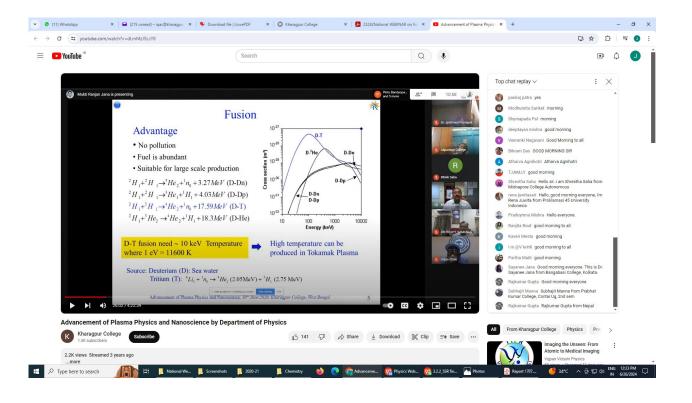
Nanoscience

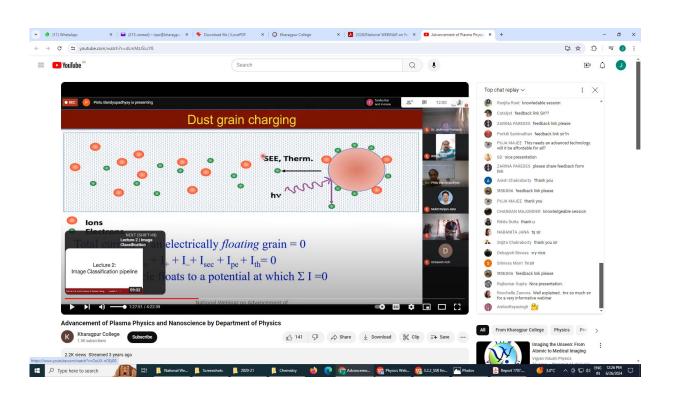
14.00-14.45

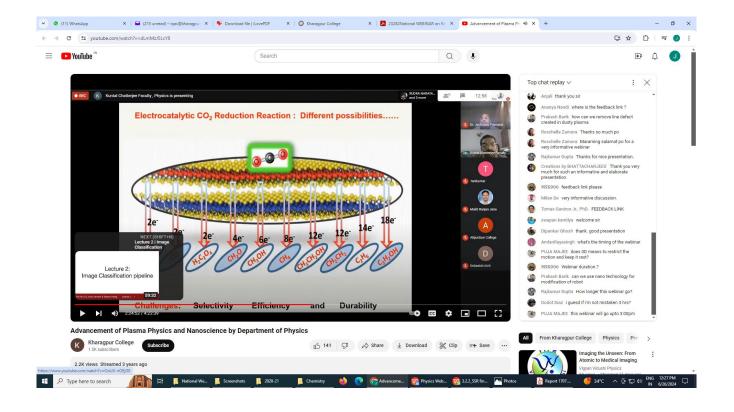
14.45-15.00

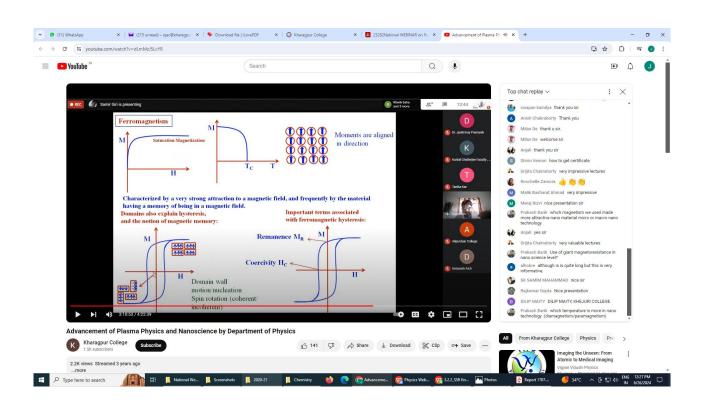


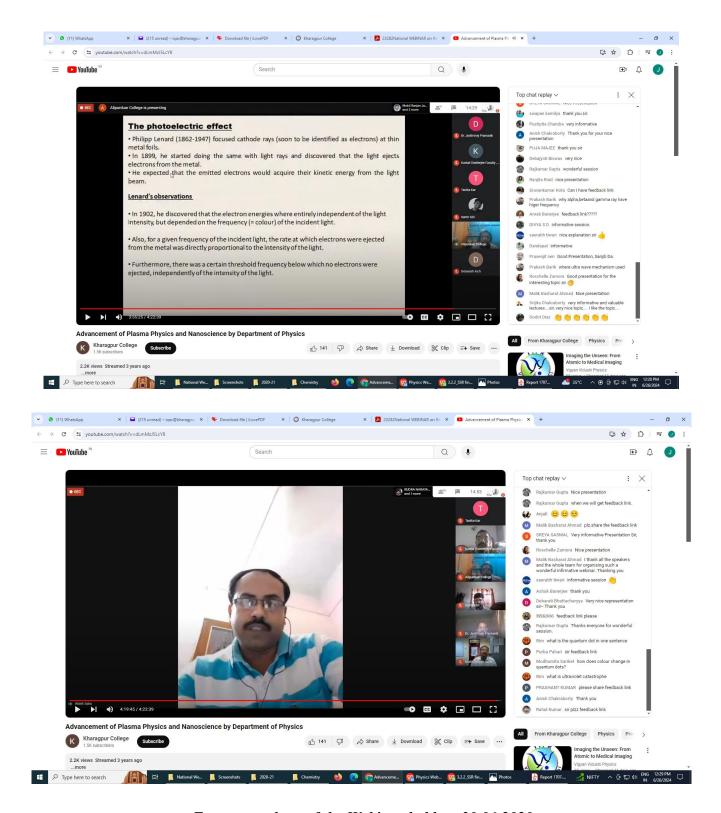












Few screenshots of the Webinar held on 30.06.2020

#### Report

#### National WEBINAR

On

#### Advancement of Plasma Physics and Nanoscience

Organised by

The Department of Physics

30th June, 2020

Department of Physics, Kharagpur College has organised a one-day national Level webinar on "Advancement of Plasma Physics and Nanoscience" on 30<sup>th</sup> June 2020. The webinar generated huge response among the students, faculty members, technical professionals and scientists in India and abroad. As good as 1191 participants have registered in the webinar, out of these, (415) from different college and University of West Bengal, (446) from different states of India, mostly from all the states. More than (330) are from abroad mostly from Bangladesh, Pakistan, Nepal, Philippines, Thailand, Mayanmar, Indonesia, Malaysia. Dr. Jyotirmoy Pramanik, convener of the webinar organizing committee, extended a very warm and hearty welcome to all the participants.

Dr. Muktiranjan Jana, Scientific Officer G, Neutral Beam Injection Group, Institute for Plasma Research and Dr Pintu Bandyopadhyay, Associate Professor, Institute for Plasma Research, the resource persons, were virtually present and deliverd a talk on recent research, development and experiments on Plasma Physics in India in the webinar.

Dr. Kuntal Chatterjee, Assistant Professor, Department of Physics, Vidyasagar University, was also with us to present his recent research works on "Nanoscience: A step to care our environment".

We have also two young and enthusiastic faculty as resource persons.

Dr. Samir Kumar Giri, Assistant Professor, Department of Physics, Kharagpur College presented his research experiences on magnetism in the Nanoscale level.

Dr. Sanjib Sarkar, Assistant Professor, Alipurduar College have also join with us, to share his research and teaching experiences.

All the resource persons of this webinar showed their commendable performance in the field of Plasma physics and Nanoscience from time to time. They are kind enough to remain present among us today, in the webinar. We are true sense thankful to them.

E certificates were provided to the all participants through registered e-mail. The webinar was conducted in google meet, and the whole webinar was streamed live through you tube link: https://youtu.be/dLmMzJ5LcY8. At the end, Dr. Ritwik Saha, HOD, Physics expressed vote of thanks to the speakers, organising committee members and to the participants.