



## INTERNATIONAL WEBINAR ON

**RECENT SUCCESS AND CHALLENGES IN  
NANOSCIENCE AND NANOTECHNOLOGY  
(EXPERIMENT & THEORY)  
25<sup>TH</sup> – 27<sup>TH</sup> SEPTEMBER, 2020**

Organized by  
**School of Applied Science and Humanities  
Haldia Institute of Technology**

**RSCNN  
2020**





### About the Institution

Haldia Institute of Technology (An Institute of ICARE, Haldia, Approved by AICTE, Affiliated to WBUT) began its journey in the year 1996. It is the first private and accredited academic institution catering technical education in West Bengal. The Institute is situated at Haldia – an industrial hub in Eastern India. Since inception, Haldia Institute of Technology is dedicated to the objectives of creating highly trained professional manpower in various disciplines of Engineering, Technology and Social Science. The Institute is also dedicated to the contribution of higher scientific research in Technology as well as in Applied Science and Social Science. The institute offers 4 years UG (B. Tech) degree courses in EE, ECE, AEIE, CE, ME, IT, CSE, Chemical, Biotechnology, Cyber Security, Data Science and AI & ML. It also offers PG courses in Chemical, CSE, ECE, BT, ME, MBA and MCA. It has been accredited with grade A by NAAC and all of the departments are NBA accredited. The institute has received the prestigious NIRF ranking by MHRD and holds second position among all the private engineering institutes in West Bengal.

### About the Department

School of Applied Science & Humanities was established in the year 1996 and it constitutes the Physical Science Unit, Chemical Science Unit, Mathematical Science Unit & Humanities (English Language) Unit. The department serves all the twelve UG programs for first year courses and also second to fourth year of some programs. Faculty members of the school have pursued Ph.D. and Post Doctoral degrees from elite institutions in India and abroad. Our faculties also have got Govt. Projects as also consultancy projects and are busy in guiding PhD students.

### Topics of the Webinar

Nanoscience for clean energy applications, Nanoscience for renewable energy, Nano bioscience and Nanomedicine, Nanoscience in electronics and optoelectronics, Nanoscience in solar cells, Nanoscience in Hydrogen storage

### Who can attend ?

Faculty members, Research Scholars, Post Graduate and Under graduate students

### Registration link:

<https://forms.gle/VkydZCUcn1FEZkQh6>

### Registration Fee

There is no registration fee

Last date of registration: 23.09.2020

E-Certificate will be provided after attending the programme and providing the feedback for each day.

RSCNN  
2020



**Chief Patron**  
**Dr. Lakshman Chandra Seth**  
Chairman, ICARE

### Advisory Committee

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**Prof. (Dr.) Asit Baran Maity**, Dean, School of Applied Science and Humanities (SASH), HIT

### Programme Chairman

**Prof. (Dr.) Dipak Kr. Jana**, HOD, School of Applied Sciences and Humanities (SASH), HIT

### Convenors and Contact Persons

**Dr. Arka Chaudhuri**, SASH, Mob: 9933804831,  
[arkac123@gmail.com](mailto:arkac123@gmail.com)

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[santanab.giri@gmail.com](mailto:santanab.giri@gmail.com)

### Organizing Committee

All the Faculties of SASH

### Resource Persons



**Prof. Satishchandra B. Ogale**  
IISER Pune, India



**Prof. Kalyan Mandal**  
SN Bose National Centre for Basic Sciences, Kolkata



**Prof. Puru Jena**  
Distinguished Professor Virginia Commonwealth University, USA



**Prof. Nguyen T. K. Thanh**  
University College London, UK



**Prof. Rajesh Das**  
HIT, Haldia



**Prof. Vishnu Shanker**  
NIT, Warangal



**Dr. Sudip Chakraborty**  
IIT Indore



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IIT Roorkee



**Prof. G. Roymahapatra**  
HIT, HALDIA



**Prof. Sateesh Bandaru**,  
Hangzhou Dianzi University, China



**Prof. Soumitra Kar**  
HIT, Haldia



**Dr. Gobinda Gopal Khan**,  
Tripura University



# TENTATIVE SCHEDULE

**DATE: 25<sup>TH</sup> SEPTEMBER**

- ❑ Welcome Address : Prof. (Dr.) Dipak Kumar Jana, HOD, SAS&H
- ❑ Inauguration Speech: Dr. Lakshman Chandra Seth, Honorable Chairman, ICARE

## Invited Lectures

- ❑ Prof. Nguyen T. K. Thanh, University College London (Title of the Talk: Plasmonic and Magnetic nanoparticles for biomedical applications)
- ❑ Prof. Sudip Chakraborty, IIT Indore (Title of the Talk: Materials Modelling for Energy Scavenging: A Computational Roadmap)
- ❑ Prof. Manojit Bag, IIT Roorkee (Title of the Talk: Nanotechnology for Solar Photovoltaics: Fabrication, Characterization and Future Challenges)
- ❑ Prof. Gourisankar Roymahapatra, HIT, Haldia (Title of the Talk: Ru-NHC Nanoball for Antimicrobial and Cancer Therapy)

**DATE: 26<sup>TH</sup> SEPTEMBER**

- ❑ Prof. S. B. Ogale, IISER Pune (Title of the Talk: Engineered Nanomaterials for clean energy applications)
- ❑ Prof. Kalyan Mandal, SNBNCBS, Kolkata (Title of the Talk: Novel properties of transition metal oxide nanostructures)
- ❑ Prof. Vishnu Shanker, NIT Warangal (Title of the Talk: Hybrid nanocomposite photocatalyst for environmental remediation)
- ❑ Prof. Rajesh Das, HIT Haldia (Title of the Talk: Role of Nanotechnology for Solar Energy)

**DATE: 27<sup>TH</sup> SEPTEMBER**

- ❑ Prof. Puru Jena, VCU USA (Title of the Talk: Discovery of U-Carbon: A Metallic and Magnetic Allotrope)
- ❑ Prof. Sateesh Bandaru, Hangzhou Dianzi University, China (Title of the Talk: The role of Hubbard, dispersion and  $O_2$  over binding corrections for  $\alpha$ - $Fe_2O_3$  surface energy, magnetic ordering and band alignment)
- ❑ Prof. Gobinda Gopal Khan, Tripura University (Title of the Talk: Engineered Functional Oxide Nanostructures for Solar Energy Harvesting)
- ❑ Prof. Soumitra Kar, HIT Haldia (Title of the Talk: )

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