



National Science Day

Department of Physics, IIT Guwahati

February 28, 2022



Integrated Approach in Science & Technology for Sustainable Future

Featuring Quiz Competition

Category 1: Class 10-12

Category 2: Undergraduate

First Prize: ₹3000, Second Prize: ₹2000, Third Prize: ₹1000

+Certificates

Session I

Opening session

10:00 Inaugural address by HOD

10:05 Keynote Lecture by **Prof. Bhupendra Nath Goswami**, SERB Distinguished Fellow, Cotton University.

Title: *Climate Emergency and Challenges of Sustainable Development*

10:50 Discussion & Interactions

Session II

Breakthrough & innovations at IIT Guwahati

11:00 Invited Lecture by **Prof. Kaustubha Mohanty**, Department of Chemical Engineering

Title: *Microalgae based biorefinery with circular bio-economy*

Talks by Student Achievers

11:30 **Arghyajit Datta**

Title: *Shedding light on dark matter using neutrinos.*

11:45 **Shilpi Roy**

Title: *Reentrant localization transition in a quasiperiodic chain*

12:00 **Gajendra Singh Bish**

Title: *Off-equilibrium dynamics manifested through memory and rejuvenation effects in 1-D spin-chain compound $\text{Ca}_3\text{Co}_{2-x}\text{Bi}_x\text{O}_6$*

12:15 **Pragya Gupta**

Title: *Coupled lattice vibrations and exchange*

bias in rare-earth orthochromites

12:30 **Samik Mitra**

Title: *Magnetohydrodynamic flows around black holes in strong gravity regime: an analytical and numerical study*

12:45 **Anterdipan Singh**

Title: *Simulation studies on multilayer structures of Antireflection coatings for silicon-based solar cells*

13:00 Lunch Break

Session III

Science Quiz Competition

14:30 Science Quiz

16:30 Quiz Result Announcement

16:40 Vote of Thanks & Concluding Remarks

For Details, Visit [Event Website](#)

The programme will be conducted using the online platform MS-Teams. Live: [YouTube](#); [Facebook](#).

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