



Department of Physics

IIT Guwahati

presents

National Science Day – 2019

28 February, 2019



Programme (hrs)

Session I (Chair: Prof. B. R. Boruah)

- 09:00- 09:15 Inauguration
- 09:15 - 10:00 Keynote Lecture I: Prof. D. J. Saikia (Citizen Science: a perspective)
- 10:00 - 10:20 High Tea
- 10:20 - 11:05 Keynote Lecture II: Prof. A. Gohain Barua (Enjoyment of doing science: the enchanting light of the firefly)

Session II: Presentation by PhD students (Chair: Prof. P. Poullose)

- 11:15 - 11:30 Lecture I: Apurba Das (Growth and Microstructural characterization of bone like apatite)
- 11:30 - 11:45 Lecture II: Sheuly Ghosh (Site occupancy and magnetic configuration dependent phase stability in Heusler $Ni_2Mn_{1+x}Sb_{1-x}$ alloy)
- 11:45 - 12:00 Lecture III: Sumit Goswami (Ellipsometric characterization of pulsed laser deposited indium oxide films grown at different substrate temperatures using combination of Tauc-Lorentz and Gaussian oscillators models)
- 12:00 - 12:15 Lecture IV: Krishnakanta Bhattacharya (Thermodynamic equivalence of Jordan and Einstein frame in scalar-tensor theory)
- 12:15 - 12:30 Lecture V: Purusottam Ghosh (Group theory decides the fate of scalar dark matter of the universe)
- 12:30 - 14:00 Lunch Break

Session III: Presentation by Post doctoral researchers (Chair: Dr. C. Y. Kadolkar)

- 14:00 - 14:25 Lecture I: Dr. Munu Borah (Oxygen Evolution Catalyst via Boride Decoration over Expanded Graphite Gallery Space: Efficient Binder Free Self-Standing Electrode for Low Cost Use)
- 14:25 - 14:50 Lecture II: Dr. Koushik Saikia (Development of hierarchical magnetic semiconductor heterostructures)
- 14:50 - 15:15 Lecture III: Dr. Vishwajit M Gaiwad (Design and investigation of novel nanostructured multiferroic oxide)
- 15:15 - 15:40 Lecture IV: Dr. Ashmita Das (Observer dependence in fundamental Physics)
- 15:45 - 16:00 Tea

Session IV: Outreach activities of Department of Physics to popularise science in North-East

- 16:00 - 16:30 Lecture I: SPIE activities to popularise science in North-East India: Nagendra Kumar & Aditya Kalita
- 16:30 - 16:45 Concluding remarks

Venue: Seminar Room, Department of Physics