

A REPORT ON MINI COLLOQUIUM “PHYSICS OF ELECTRONIC AND SPINTRONIC MATERIALS”

Held at Central Department of Physics, Tribhuvan University, Kirtipur, Kathmandu, Nepal

On December 02, 2013, the IEEE EDS Mini-Colloquium on PHYSICS OF ELECTRONICS AND SPINTRONICS DEVICES was held successfully at Central Department of Physics, Tribhuvan University, Kirtipur (CDP,TU) Kathmandu, Nepal. Three IEEE Distinguished Lecturers and two Lecturers from India and one Lecturer from Nepal attended the mini-colloquium to deliver six seminar talks:

1. Dr. Chandan Kumar Sarkar, Professor of Electronics,
Jadavpur University Distinguished lecturer, IEEE/EDS

Title of talk: Advanced Heterostructure based Nano Scale MOSFETs

2. Dr. Gana Nath Dash, Distinguished Lecturer
SMIEEE(USA), FIET(UK), FIETE(INDIA)
DISTINGUISHED LECTURER, EDS, IEEE
Professor & Ex Head
School of Physics
Sambalpur University, Jyoti Vihar,
Sambalpur - 768019, Orissa, India

Title of talk: Electronics of 2-Dimensional Dirac Fermions in Graphene

3. Dr. M. Jagadesh Kumar, FNAE, FNASc, FIETE, Distinguished Lecturer
Chair Professor
Dept. of Electrical Engineering
Indian Institute of Technology, New Delhi 110016

Title of talk: Steep threshold green transistors: will they take over the conventional CMOS?

4. N. Mohan Kumar, IEEE/EDS
SKP Engineering College, Trivannamalai, Tamilnadu, India
EDS Chair, Madras Chapter

Title of talk:

Quaternary GaN HEMT Devices for high Power, High breakdown and Microelectronics and VLSI optoelectronic applications – Radar, Navigation, image application.

5. Dr. Sanjeev Manhas, Assistant Professor
Microelectronics and VLSI ECE Department
Indian Institute of Technology Roorkee

Title of talk: Nanowire Semiconductor

6. Dr. Narayan Adhikari, Associate Professor,
Central Department of Physics, Tribhuvan University, Kirtipur, Kathmandu, Nepal

Title of talk: Spintronics - Introduction, applications and Perspectives

The event started with a formal inauguration ceremony of the MQ chaired by the Head of the Department, Central Department of Physics, Prof. Dr. Lok Narayan Jha. Chairperson of the EDS/IEEE Nepal chapter Prof. Sitaram P Byahut formally welcomed the distinguished lecturers and other lecturers as well as participants by formally introducing IEEE organization and its chapters, activities and its role in advancing technologies. The inaugural ceremony was formally inaugurated by the Vice-Chancellor of Tribhuvan University Prof. Dr. Hira Bahadur Maharjan, who emphasized the role of such colloquia in fostering the bonds between scientists through exchanges and collaborations as well as the efforts of Tribhuvan University in promoting education and research culture. He wished a successful completion of the mini colloquium. Prof. C. K. Sarkar, DL and former minister of Science and Technology Er. Mr. Ganesh Shah also spoke on the occasion. The guests from abroad were felicitated by wrapping them with traditional shawls.

There were two working sessions with a lunch break in between. In the first session there were presentations from two DLs - Prof. C K Sarkar and Prof. Gan Nath Dash - and two lecturers – Dr. Sanjeev Manhas and Dr. Narayan Adhikari- as well from Mr. Gopi Kafle, a doctoral student of the department. In the second session Prof. M. Jagdesh Kumar, DL and Lecturer N. Mohankumar delivered their respective lectures. This session also saw two short presentations by Dr. Sanju Shrestha and Mr. Deepak Karki. There were five poster presentations during the lunch hours.

The MQ was concluded with a lively dinner attended by members of IEEE and the lecturers from abroad.

Snapshot



Inaugural Session: on the dais



Prof Sarkar delivering his lecture.



Prof. N Mohan presenting his Lecture.



Prof M. Jagadesh Kumar delivering his informative lecture filled with humor.



Dr. Narayan Adhikari reviewing spintronics literature and presenting the findings from research work in Tribhuvan University



Dinner with DLs at the end of MQ



Participants at the event: Dr Sanjeev Manhas on the left (one of the speakers).



Prof GN Dash giving his lecture about new form of matter 'Graphene'.



Speakers of the MQ.