

# REPORT ON EAPE'15

*EAPE (Emerging Areas of Photonics and Electronics) is a conference on opto-electronics and cross disciplinary subjects. It is a platform for students to publish their research work and show their expertise on certain topics. EAPE is an inter college student research paper competition where any students (except Ph.D) can participate and publish their research paper on the basis of selection. This conference is organized by the student chapter of SPIE of BPPIMT. Some renowned professors and in house lecturers are invited to present their talk. In this year total 8 student papers have been published. They are as follows:*

1. **Fabrication of  $ZnO_{1-x}Mn_xO$  thin films by sol-gel technique for device applications** by Prerna Sharma, R.N. Gayen
2. **High Contrast non-linear Switching in Plasmonic Slot Wave Guide** by Suchismita Paul, Mina Ray
3. **Wireless Transmission of Electricity** by Gaurav Paul, Dibyendu Mukherjee, AvinashChaurasia, Anirban Dutta
4. **Vehicle Monitoring & Emergency Respose System Using Impact Sensors and Accelerometer** by Avirup Roy, AvishekPrabirChaudhury, Mayukh Sinha, AnuragChaudhury
5. **Review on Electro-Conductive Nature of CNTs and Buckypaper** by Swarnav Mukhopadhyay, SouranuMajhi
6. **Integration of SWARM Intelligence into Self-driving cars** by DebdyutHazra
7. **Intelligent Traffic Control System** by Akash Singh
8. **Wireless and Mobile Networks** by ArunavaDhar

The invited speakers and their topics are as follows:

### **1. Interfacing Techniques In Embedded Systems**

Dr. ProbalSengupta  
Chief Technology Officer  
Alumnus Software Pvt. Ltd  
Adjunct Professor,AKCSIT(CU)

### **2. 3D Imaging Techniques**

Prof.(Dr.) Prabir Kumar Biswas  
Head of the Department  
Electronics and Communication Engineering  
IIT Kharagpur

In-House Talk are as follows:

### **1. Optical Wireless Communication - An Overview**

Dr. ArijitSaha  
Associate Prof.  
Electronics and Communication Engineering  
B.P Poddar Institute Of Management And Technology

### **2. Application Of Some Mathematical Transforms in Some Signal and Image Processing**

Dr. Surajit Mandal  
Associate Professor  
Electronics and Communication Engineering  
B.P Poddar Institute Of Management And Technology

*Principal Dr. Sutapa Mukherjee, Dean Academics Dr. B.N Chatterjee, HOD of Electronics and Communication Dr. Shila Ghosh have also given speech and presented memento to the invited and in-house speakers. This event was very much successful and inspirational to the students also. We are expecting more participants in upcoming year and our vision is to inspire the students to join research and development sector.*