List of SPIE Chapter events in the year of 2014-2015 . . .

1. Photo-optical lab visit at Indian Institute of Technology, Kharagpur, 22\textsuperscript{nd} Nov 2014

2. Seminar on Convergence of Electronics, Communication and Signal Processing, 31\textsuperscript{st} Oct 2014

3. First School Awareness Program at NETAJI SHIKSHAYATAN, 6\textsuperscript{th} Feb 2015

4. Abhigyan 2015 (Tech-Quiz), 9\textsuperscript{th} Feb 2015

5. KHET 2015, 24\textsuperscript{th} Feb 2015
6. Participation at SPIE Optics + Optoelectronics

   Conference Prague, 13th - 16th April 2015

7. Second School Awareness Program at Jana Kalyan Siksha Mandir High School, 4th May 2015

8. Third School Awareness Program at Salt Lake Point School, 17th Aug 2015

9. Chapter Meetings and Website Launch
It was the 4th industrial/Institutional visit organized by the SPIE BPPIMT Student Chapter since its birth in 2010. This time it was at India’s most renowned Engineering Institute IIT Kharagpur. Thanks to our advisor Prof. (Dr.) Shila Ghosh for taking an authorized permission from the concerned authority for this visit. The visiting team was consist of 50 students and 4 faculty members. We learned lot of things about optics and photonics from IIT Professors and got to know about different optical devices there. It was an amazing experience for all the chapter members and indeed a memorable one like always.
A seminar on Convergence of Electronics, Communication and Signal Processing was organized by our chapter along with our college. We had a series of lectures by Dean of our college Prof (Dr.) BN Chatterjee, our HOD and Chapter Advisor Dr. Shila Ghosh and eminent Professors like Dr. D Chattopadhyay and Dr. Avirup Barman. We had a participation of nearly 120 students. The lectures were based on basic and advanced electronics, Optical Communication and various fields of signal processing.
India is not among the creams in the world if we consider its educational backbone. Education is still a crying need in India. According to the census (2011), 74.04% of the total heads in India is literate. In West Bengal, the scenario is slightly inspiring with 77.08% of its total population can at least manage to write. But the interest in science and technology is in dearth even now. Only one-sixth of the total student strength in India is now in technical premises. In this context, "school awareness program" by SPIE BPPIMT STUDENT CHAPTER is a little endeavor from our side to make the teens interested in STEM (Science, Technology, Engineering & Mathematics). Our campaign is to evoke an interest in ELECTRONICS along with its peripheral technical parts. It is to be highlighted that 2015 was being announced as “International Year of Light”. So, we have special focus to promote awareness in the field of Optics and Photonics. Till date we have successfully conducted 3 school awareness programs in 3 different schools of Kolkata. And we will keep on conducting such programs in the coming years.
Brief outline of the program:

• Classes on basic electronics covering semiconductor, diode, transistors and familiarization with these.
• Classes on LED, LASER, optical fiber and relating those in our daily life.
• Brief ideas about Prism, grating, Photodiode followed by a hand-on practical session.
• Robotics and its application.
• Exhibition of different models (with their working) like “automatic morning alarm system”, “water level indicator” etc.
• Quiz session on basic science, optics and electronics.
1st School Awareness Program at Netaji Sikshayatan,

6th Feb 2015
2nd School Awareness Program at Kalyan Siksha Mandir High School, 4th May 2015
3rd School Awareness Program at Salt Lake Point School, 17th Aug 2015
Abhigyan-2k15 (Tech Quiz)

Date: 9th February
Event: Quiz Show
Venue: Seminar Hall
The annual quiz competition of SPIE BPPIMT student chapter, ABHIGYAN 2k15 (The Tech Quiz) was held on 09.02.2015. It was held in the august presence of Principal, Dr. Sutapa Mukherjee, Register, Dr. Sandip Ghosh, and HOD of ECE Dr. Shila Ghosh and other faculty members of BPPIMT. The competition had its prelims before, where out of 100 teams 10 teams had been selected for round II and from there 6 teams made it to the final. The quiz competition was held in the seminar hall, and was presided by Dr. Esha Bose. It contained several rounds comprising of questions related to general knowledge focusing on technology. Rounds like guessing the songs from pictorial representation, audio visual round, and picture quiz round made the participants feel relaxed. While rounds like who am I, rapid fire, and general question round made the participants to keep their fingers crossed. The quiz included another interesting and first of its kind round for ABHIGYAN. It was named KNOW YOUR COLLEGE round. There were also lots of questions and prizes for the audience.
KHET 2.0 is an Intra College laser game event that was first introduced in Techstorm 2.13, BPPIMT. Like the previous year this year also this event was initiated with great enthusiasm and a hope that it will excel last year’s glitz, and the first step was taken with demonstration rounds. Finally on 24th February, 2015 with 102 participants, Ranit De, asst. Secretary of KHET 2.0, Techstorm 2.15 with his four volunteers Rana Biswas, Saikat Gupta, Samrat Dey and Swastik Banerjee started the Qualifiers. To accommodate such huge participants we arranged several Qualifier rounds for three days. Finally the day came. On 27th February Techstorm 2.15 took off. For the coming two days we set up different matches between our participants while the rounds naming Prelims-1, Prelims-2, Quarter-finals (With 10 participants), Semi-finals (With 6 participants) and Finals. In the finals after huge battle 3 were left. Finally 4 matches decided their faith, and Sandipan Mitra, Sourav Majumder and Riya Ghatak came out as 2nd Runner-Up, 1st Runner-Up and Winner respectively. We hope in the coming years this event KHET 2.0 will bloom and spread its aroma all over and come out as a Inter College event.
In April this year our chapter President Barnik Mandal represented our chapter in the SPIE Optics + Optoelectronics Conference at Prague. Thanks to SPIE for offering such grants like Officer Travel Grant or Student Author Travel Grant to chapters members. These grants help students a lot in exploring new places and new fields of science. This was the second time that our chapter has used this grant. And in the coming years we will try to represent our chapter in more such conferences.
Our Upcoming events by the end of International Year of Light:

1. National Conference EAPE 2015 (Emerging Areas of Photonics and Electronics)

2. Solar Project

3. Two School Awareness Programs
## EXPENDITURE 2014-2015

### Till Date:

<table>
<thead>
<tr>
<th>Event</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Abhigyan 2k15</td>
<td>$350</td>
</tr>
<tr>
<td>2. School Awareness Programs</td>
<td>$300</td>
</tr>
<tr>
<td>3. KHET</td>
<td>$150</td>
</tr>
<tr>
<td>4. Chapter Meetings</td>
<td>$70</td>
</tr>
</tbody>
</table>

**Expenditure of upcoming events under the allotted grant of 2014-2015:**

<table>
<thead>
<tr>
<th>Event</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>5. EAPE 2015</td>
<td>$1000</td>
</tr>
<tr>
<td>6. Two School Awareness Programs</td>
<td>$230</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$2100</strong></td>
</tr>
</tbody>
</table>

**Amount Granted (2015)** | **$2100**
Chapter Officers of 2014-2015:

President: Barnik Mandal    barnikm.1993@gmail.com
V. President: Debajit Jotder    debajitjotder5@gmail.com
Secretary: Samrat Dey    samrat11.1993@gmail.com
Asst. Secretary: Ranit De    ranit.bppimt@gmail.com
Co-treasurer: Ranita Banerjee    ranitabanerjee06@gmail.com
Co-treasurer: Roshni Dasgupta    rdasgupta685@gmail.com
Web master: Ayush Basak    ayushbasak@gmail.com
Student Coordinator: Mayukh Chakraborty
Contact details:
Dr. Shila Ghosh (Advisor) : ghosh_shila@yahoo.co.in
Barnik Mandal (President) : barnikm.1993@gmail.com
Swranav Mukherjee : swarnavhome@gmail.com

Our Website:
www.spiebppimt.org

- Report by Barnik Mandal