

## Student Chapter : OSA-Optical Society of America

The St. Joseph's College of Engineering – Optical Society of America student Chapter was inaugurated on 14<sup>th</sup> September, 2011. This Chapter is the 13<sup>th</sup> in India and the Third in State next to IITM and NIT. In our Chapter the following events were organized for the students.

### Report on OSA Chapter for the past three Academic Years:

#### For the Academic Year-2012-2013

| Sl. No | Date  | Event Name                             | Venue   | Topics  |
|--------|---|--|---|---|
| 1.     | 13-08-2012  | OSA-School Visit                       | Kendriya Vidyalaya, IITM, Chennai                                   | Experimental demonstration using Kit, Quiz, Future Optics   |
| 2.     | 24-09-2012  | Guest Lecture                          | Bazil Hall-St. Joseph's College of Engineering                      | MEMS and MEOMS by Dr. L. Sujatha, HOD, ECE, Rajalakshmi Engineering College.                                  |
| 3.     | 29-09-2012  | JET-Signum-12-Symposium                | Ground Floor-ECE Lab Premises, St. Joseph's College of Engineering. | OPTIKIT Demonstration, Competition  |
| 4.     | 7 <sup>th</sup> to 8 <sup>th</sup> December-2012. | International Conference (IONS-Asia-2) | IIT-Madras  | 1. Fiber Optics<br>2. Integrated Optics<br>3. Laser and Free space Optics<br>4. All optical Signal Processing |

#### For the Academic Year -2013-2014

| Sl. No | Date       | Event Name  | Venue  | Topics  |
|--------|------------|---|--|---|
| 1.     | 10-10-2013 | Guest Lecture by Prof. C. Vijayan (Dept of Physics IIT-M)                     | St. Josephs' college of Engineering-Placement Block (Hazil-Hall) | Photonics : The New Frontier  |
| 2.     | 15-10-2013 | Guest Lecture by Dr. Deepa Venkitesh (Dept of Electrical Engineering, IIT-M)  | St. Josephs' college of Engineering-Placement Block (Hazil-Hall) | Evolution of Fiber Optic Communication systems & Recent trends  |
| 3.     | 20-12-2013 | Intra Chapter Competition For 2 <sup>nd</sup> & 3 <sup>rd</sup> yr UG members | St. Josephs' college of Engineering-Placement Block (Bazil-Hall) | Presentations on the Basics of Optics   |
| 4.     | 18-02-2014 | Outreach Program – School Visit   | Vidyodaya Matriculation Hr. Sec. School T. Nagar Chennai         | Kit Demonstrations-Optical phenomenon's of reflection, refraction & interference. Videos on Colours, Laser & optical fibers |
| 5.     | 26-02-2014 | Outreach Program –  | St. John's International   | Kit Demonstrations- Polarization, Total   |

|    |            |                                  |                                     |  |
|----|------------|----------------------------------|-------------------------------------|--|
|    |            | School Visit                     | School Palavakkam Chennai           | Internal Reflection & Diffraction. Videos on Scattering, Optical illusions   |
| 6. | 01-03-2014 | National Level College symposium | St. Josephs' college of Engineering | Conducted a technical challenge consisting of<br>Round 1: Preliminary written round<br>Round 2: Optical Laser Reflection challenge<br>Round 3: Practical Tasks |

#### For the Academic Year 2014-2015

| Sl. No | Date       | Event Name                      | Venue   | Topics  |
|--------|------------|---------------------------------|---|---|
| 1.     | 30-08-2014 | KERNEL-2K14                     | St. Josephs' college of Engineering                       | Experimental Demonstration, Treasure Hunt.  |
| 2.     | 12-09-2014 | Outreach Program – School Visit | Peniel Matriculation Higher Secondary School, Chennai-100 | Kit Demonstrations-Optical phenomenon's of reflection, refraction & interference. Videos on Colours, Laser & optical fibers |

#### For the Academic Year 2015-2016

| Sl. No | Date      | Event   | Venue  | Topic   |
|--------|-----------|---|--|---|
| 1      | 1-7-2015  | School visit(educational outreach program)  | HOLY ANGELS ANGLO INDIAN SCHOOL Pallikarani, Chennai.                          | Optical Kit Demo and some important properties of light.                        |
| 2      | 10-7-2015 | Recruitment Drive   | Basil Hall, Placement Block, St. Joseph's College of Engineering, Chennai-119. | Recruiting NEW OSA members from II ECE  |
| 3      | 23-7-2015 | Guest lecture by, <b>Dr. Rita John</b> , Professor Department of Physics, University of Madras. | AV Hall, St. Joseph's College of Engineering, Chennai-119                      | 'OPTICS' – THE BASICS OF PHYSICS  |
| 4      | 5-8-2015  | Triumph 25 (Competition for School Students) with Expo by OSA members.                          | Placement Block St. Joseph's College of Engineering Chennai-119                | Laser beam, Colored shadows, Hologram based Demo and Experiments                |
| 5      | 8-9-2015  | OSA SYMPOSIUM 2015- BLAZOVION   | ECE Department Block-XI St. Joseph's College of Engineering                    | Optical Kit-Demo followed by an non-technical event - Crime scene investigation |

#### For the Academic Year 2016-2017

| Sl. No | Date       | Event  | Venue   | Topic   |
|--------|------------|--|---|---|
| 1      | 1-7-2015   | School visit(educational outreach program)   | HOLY ANGELS ANGLO INDIAN SCHOOL Pallikarani,Chennai.                        | Optical Kit Demo and some important properties of light.                        |
| 2      | 10-7-2015  | Recruitment Drive  | Basil Hall,Placement Block, St.Joseph's College of Engineering,Chennai-119. | Recruiting NEW OSA members from II ECE  |
| 3      | 23-7-2015  | Guest lecture by, <b>Dr.Rita John</b> , Professor Department of Physics, University of Madras. | AV Hall, St.Joseph's College of Engineering, Chennai-119                    | 'OPTICS' – THE BASICS OF PHYSICS  |
| 4      | 5-8-2015   | Triumph 25 (Competition for School Students) with Expo by OSA members.                         | Placement Block St.Joseph's College of Engineering Chennai-119              | Laser beam, Colored shadows, Hologram based Demo and Experiments                |
| 5      | 8-9-2015   | OSA SYMPOSIUM 2015- BLAZOVION  | ECE Department Block-XI St.Joseph's College of Engineering                  | Optical Kit-Demo followed by an non-technical event - Crime scene investigation |
| 7      | 22-07-2016 | School visit(educational outreach program)   | S.B.O.A School and Junior College, Annanagar, Chennai                       | Optical Kit Demo and some important properties of light.                        |
| 8      | 26-07-2016 | Workshop   | Department of ECE, St.Joseph's College of Engineering, Chennai-119.         | Optical Fiber Cables  |
| 9      | 17-08-2016 | Recruitment Drive  | Department of ECE, St.Joseph's College of Engineering, Chennai-119          | Recruiting NEW OSA members from II ECE  |

### For the Academic Year 2017-18

| Sl.No | Date     | Event             | Venue  | Topic                                  | Level       |
|-------|----------|-------------------|--|--|-------------|
| 1     | 04.08.17 | Recruitment Drive | Basil Hall,Placement Block,<br><br>St.Joseph's College of Engineering,Chennai-119. | Recruiting NEW OSA members from II ECE | Institution |

|    |                      |   |   |  |               |
|----|----------------------|---|---|--|---------------|
| 2  | 22.08.17             | Intra OSA Chapter Event   | Basil Hall, Placement Block,<br><br>St. Joseph's College of Engineering, Chennai-119.     | Project Display  | Institution   |
| 3  | 17.09.17 to 21.09.17 | Student Leadership Conference attended by Chapter President M.J. Anand Raja | Washington, District of Columbia, USA   | OSA-International Student leadership conference.         | International |
| 4. | 20.12.17             | Optical Fest  | ECE Department Lab, Third Floor.<br><br>St. Joseph's College of Engineering, Chennai-119. | Innovative Optical Mini Projects                         | Institution   |
| 5  | 16.02.18             | School visit(educational outreach program)                                  | Chittinad Vidhyashram ,<br><br>R.A.Puram<br><br>Chennai.                                  | Optical Kit Demo and some important properties of light. | Institution   |

### OSA Chapter Activity 2018-19

| Sl.No | Date       | Event                                      | Venue   | Topic   | Level       |
|-------|------------|--|---|---|-------------|
| 1     | 17-7-2018  | School visit(educational outreach program) | Akshaya Global Matriculation School Vellacherry                                       | Optical Kit Demo and some important properties of light | Institution |
| 2     | 14.08.18   | Recruitment Drive                          | Basil Hall, Placement Block,<br>St. Joseph's College of Engineering, Chennai-119.     | Recruiting NEW OSA members from II ECE                  | Institution |
| 3     | 1.09.2018  | OSA SYMPOSIUM ENIGMA                       | ECE Department Lab, Third Floor.<br>St. Joseph's College of Engineering, Chennai-119. | Optical Kit-Demo followed by a non-technical event      | National    |
| 4     | 09.012.18  | Intra OSA Chapter Event                    | Basil Hall, Placement Block,<br>St. Joseph's College of Engineering, Chennai-119.     | Project Display   | Institution |
| 5.    | 12-01-2019 | Optical Fest                               | ECE Department Lab, Third Floor.<br>St. Joseph's College of Engineering, Chennai-119. | Innovative Optical Mini Projects                        | Institution |
| 6     | 22-02-2019 | School visit(educational outreach program) | St. Micheal's Academy School, Adayar  | Optical Kit Demo and some important properties of light | Institution |

|   |            |          |   |                                 |             |
|---|------------|----------|---|---------------------------------|-------------|
| 7 | 22-03-2019 | Election | ECE Department Lab,<br>Third Floor.<br>St.Joseph's College of<br>Engineering,Chennai-119. | Electing New Office-<br>bearers | Institution |
|---|------------|----------|---|---------------------------------|-------------|

Student Leadership Conference Organized by OSA (USA) and the following Students were invited and attended the same.

| Sl.No | Academic Year | Student Name     | Venue   |
|-------|---------------|------------------|---|
| 1.    | 2013-2014     | Arokia Rinaldo.A | Rochester,New York.                                     |
| 2.    | 2014-2015     | Joseph Jos.K     | Tucson City, Arizona State,US                           |
| 3.    | 2015-2016     | Felix Ashwin A.P | Hyatt Place, San Jose.United States of<br>America (USA) |
| 4.    | 2016-2017     | Dhinesh P        | Tucson City, Arizona State,US                           |
| 5.    | 2017-2018     | M.J. Anand Raja  | Washington, District of Columbia, USA                   |