

OSA STUDENT CHAPTER ACTIVITIES (2019)

The OSA (The Optical Society) VIT Chennai Student Chapter organized a Vintage Photography and Camera Show on 20th September 2019 as part of TechnoVIT 2019 in association with Dr. Arun's Photography And Vintage Camera Museum, Chennai.

The event consisted of:

- ★ A guest lecture by Dr.A.V.Arun on the evolution of camera-optics and history of photography along with hands-on-demonstration



- ★ Exhibition of the vintage cameras for the benefit of students.



Mr. Lokesh Reddy B is awarded with full travel grant to represent the VIT Chennai OSA Student Chapter in the Student Leadership Conference (SLC) and presented a research paper in Frontiers in Optics (FiO), held from September 13-19, 2019, Washington DC, USA.

The travel grant worth 2600 USD sponsored by optical society (OSA) includes the following:

- ★ Airfare to and from the conference.
- ★ Accommodation at the 4-H Conference Center for the nights of the 13th and 14th.
- ★ Shuttle bus from the 4-H Conference Center to the Washington Marriott.
- ★ Accommodation at the Washington Marriott Wardman Park for the nights of the 15th to 18th.

The Student Leadership Conference (SLC) is sponsored

by the Optical Society of America (OSA). It is a worldwide annual conference organized to develop skills in student representatives participating. Participants are called from student



chapters all over the world to represent their student chapter. Travel and accommodation grants are provided to representatives participating.

IONS Manipal 2019: (January 11th - 14th, 2019)

Name of student – Utkal Pandurangi (Reg No – 16BEC1094)

Poster presentation on 'Fabrication and Characteristical Analysis of Metal-Oxide Based Dye Sensitized Solar Cells for Power Optimization'. Utkal Pandurangi, a member of VIT Chennai OSA Student Chapter presented a poster based on work done under Dr. John L Kennedy of VIT Chennai's School of Advanced Sciences (SAS) in IONS Manipal 2019 conference, India. IONS is a series of student-organized, student-oriented conferences supported by OSA. IONS Manipal 2019 was hosted by Manipal Academy of Higher Education's OSA Student Chapter of Manipal's School of Life Sciences. National Yang-Ming University's OSA Chapter co-hosted IONS Manipal 2019. Some of the notable speakers were Dr. Alex Vitkin of University of Toronto, Canada who spoke on 'Photon Mayhem: Using light for structural and functional assessment of biological tissues' and Dr. Kevin Eliceiri of University of Wisconsin at Madison, USA who spoke on 'Multiphoton nonlinear optical microscopy cancer'. Utkal received a partial travel grant of INR 500 and his accommodation was fully sponsored by the conference organizers.



IONS Orlando 2019: (March 10th to 13th, 2019)

Name of student – Utkal Pandurangi (Reg No – 16BEC1094)

Oral presentation on 'Digital Fresnel Holographic Encryption using Circular Harmonic Key'



Utkal Pandurangi, a member of VIT Chennai OSA Student Chapter gave an oral presentation based on his research work done with B.Lokesh Reddy under Dr.Anith Nelleri (SENSE) in IONS Orlando 2019 conference organized by The College of Optics and Photonics (CREOL) of The University of Central Florida, Orlando, USA. IONS Orlando 2019 focused on professional development, networking between students and members of industry, and job and internship placement. The culmination of IONS Orlando was an optics career fair. The conference also included a trip to NASA's Kennedy Space Center.Utkal's accommodation for the conference days was sponsored by the organizers.

Some of the notable speakers in the conference were:

- ★ Anoopoma Bhowmik, Senior Project Manager and ELP Supervisor at Edmund Optics
- ★ Jason Eivhenolz, Co-founder and CTO of Luminar
- ★ Rebecca Andersen, Executive Director of LightCounting Market Research.

The Optical Society (OSA) VIT Chennai Student Chapter and VITeach together conducted an optics outreach programme in Kumizhi government school in Melakottiyur on February 15, 2019 from 10 AM to 2 PM. The aim of the programme was to show the students the beauty of science, in particular light, so that they are inspired to study and take up a career in science.

Two separate sessions were conducted so that all students from class 6th to 10th could be enlightened.

The following experiments were performed with emphasis on hands-on-experience for all students:

- ★ Diffraction grating experiment
- ★ Reflection of light
- ★ Light deviation through lenses
- ★ Pepper gram projection
- ★ Laser light emission versus LED light emission

★ Polarization of light

★ Mixing of colours

The students who volunteered for the event were

★ Utkal - 16BEC1094

★ Nayan Sood – 16BCL1077

★ Madhurjya Bharadwaj – 16BCL1069

★ Subramanian Venkatachalam – 17BEE1163

★ Manoj Kumar – 17BEE1126

Dr. Anith Nelleri (Faculty Coordinator of OSA VIT Chennai Student Chapter), Dr. Sathiyarayanan (Faculty Coordinator of VITeach) and B. Lokesh Reddy (Research Fellow under Dr. Anith and OSA member) accompanied the students.



