



## **IEEE IAS SBC Inauguration & Distinguished Lecture Program (DLP)**

**Venue:** Seminar Hall 1, Sree Chitra Thirunal College of Engineering, Trivandrum

**Date:** 1st March 2019

### **Introduction**

*The IEEE SCT SB launched its new chapter Industrial Applications Society (IAS) on 1st March 2019, which was followed by Distinguished Lecture Program (DLP) by Prof. Vassilios G Agelidis. Prof. Vassilios G Agelidis is an IEEE dignitary who is currently serving as the Professor at the Centre for Electric Power and Energy, DTU Electrical Engineering.*

### **Brief Description**

*The 2 hour event commenced at 11.00 am in the Seminar hall with the active participation of more than 100 students and professionals.*

*The Inaugural Ceremony started off with the Recitation of Code of Ethics of IEEE by Ms. Vyshnavi Jayakumar (Secretary, IEEE IAS SCT SB). It was followed by the Welcome Address by Dr. Bobby Philip (Staff Advisor, IEEE IAS SBC). He described the developmental step towards the Introduction of a new society in the institution. Following that, the Presidential Address was delivered by Prof. (Dr) K Prabhakaran Nair (Principal, SCTCE). Later, the traditional lamp lighting ceremony by the group of dignitaries took place which marked the official inauguration of IEEE IAS SCT SBC. The ceremony was proceeded with the inspirational and admirable speech of Prof. Vassilios G Agelidis, University of Denmark. He advised the students to follow some important principles in life such as learning from failures, improving skills, working hard to fulfil the dream etc. Following that, Dr. Madhu Mangal (Vice Chair, Life Member Affinity Group, IEEE Kerala Section), Mr. Ajith Gopi (Heading Technical Consultancy in Solar PV projects, ANERT), Prof. M R Sarathchandradas (Dean, PG Studies) conveyed their felicitations in the auspicious event. The Inaugural Ceremony concluded with the delivery of Vote of Thanks by Prof. Asha S (IEEE SCT SB Counsellor).*

*The next session marked the most craved part of the event, DLP. Mr. Abish Vijayan (Chairman, IEEE IAS SBC) gave a brief introduction on the speaker and the DLP. Prof. Vassilios began the Lecture by providing an introduction on the topic "Large-Scale Solar PV Electricity Grid Integration: Technologies, Issues, Market Integration and Impact".*

*Prof. elaborated why renewable energy sources are not stable and the need of reliable ways. He emphasized on developing more than 100% renewable energy. He also explained the effect of inertia on dynamic performance of wind turbines and need of stabilising grid and uses of off grid energy harnessing methods. He addressed every related challenges and classified uncertainty as the major challenge in renewable energy sources. As solution he suggested*



*using electric vehicles (EVs) as mobile power storage could eliminate the need to build costly stationary grid storage for energy from renewable sources. He also suggested the use of synergies by integrating different energy sources.*

*It was followed by the presentation on the topic. He bottom lined the fact that solutions can be found. Over the coming decades, digital technologies are set to make energy systems around the world more connected, intelligent, efficient, reliable and sustainable. Digitalization is already improving the safety, productivity, accessibility and sustainability of energy systems. He gave an insight on Photo-Voltaic Inverters, Differences about central, string and modular inverters, Grid Voltage Monitoring methods and generation of grids. He discussed the challenges in PV Inverter Design, influence of new semiconductor namely SiC, GaN. He concluded by indicating the requirements for the next generation of PV Inverters.*

*The DLP concluded with an interactive session with students and professionals. The DLP was so illuminating that the participants was keen and glued to their seats. Mr. Vivek Menon (Chairman, IEEE SCT SB) delivered the Vote of Thanks which marked the end of the auspicious event. This was followed by presenting a token of love to Prof. Vassilios and a Group photo session.*

**No of participants : 122**

*IEEE IAS members: 35*

*IEEE members: 81*

*Non members: 41*

## Photographs



