INauguration of World Class Twin Auditoriums

Another dedication to the field of education by Saveetha.

July Edition

2018
INAUGURATION OF WORLD Class TWIN Auditoriums "Lines and Lattice"
Some clicks of the great moment
Another dedication to the field of Education by Saveetha

Saveetha, the Gateway of Chennai and the Educational landmark of India, has the superlative conveniences that have been designed to ignite the fire of knowledge among our students. The facilities stimulate mental, social and spiritual development, providing ample opportunities for learning study and reflection; interaction, play and recreation; exploration and discovery; and sports and expression. In that way an attempt was made to construct a twin Auditoriums with extreme standards of the orb. That resulted in “Lines and Lattice”, in Saveetha School of Engineering, a center for World Education in Technology and Inter-disciplines.

Inauguration took place on 16th July 2018. The Chief Guest His Excellency, Antony Lobo Hon. Consul of Spain and Guest of Honor Mr. Manikandan Thangarathnam, Director, Software App Store, Amazon Development Centre were there to extend their happiness and to cut the ribbons. They were accompanied by our Honorable Chancellor Dr. N. M. Veeraiyan, SIMATS, Dr. Deepak Nallaswamy Director of Academics, SIMATS, Dr. Ramya Deepak Director of Saveetha School of Engineering.

The Auditoriums with unusual semicircular shape glimpsed with lots of blooming bright lights which was an awesome and splendid show. An unparalleled enthusiasm prevailed among everyone present there.
After the formal welcome address, Our Honorable Chancellor Dr. N. M. Veeraiyan, an iron man behind the huge kingdom of Education, SIMATS, revealed, “Never to give up and never to give excuses” and courteously stated that was his motto throughout his entire life. “Saveetha stands for Quality” was his inviolable statement at the presidential address delivered by him.

“Where education is treated as business, Saveetha does Education as service” was the proud statement at the Inaugural Address articulated by our Chief Guest. Apart from throwing light on Global Technical Education, the importance of learning Spanish, which is the second most speaking language after English, was also insisted by him.

The Guest of Honor Mr. Manikandan Thangarathnam, Director, Software App Store, Amazon Development Centre, mentioned about what to study as Engineers and where actually the Indian stands when it comes to Technology and Development.

“Making of the Auditorium” right from the design till the naming was presented by, Dr. Deepak Nallaswamy Director of Academics, SIMATS. The special address by him was scintillating and mind blowing. Any work has its own toil and that was fully reflected in his talk, which was followed by the Vote of Thanks from our untiring Dr. Ramya Deepak Director of Saveetha School of Engineering. Anyone could read a sense of satisfaction on her face.
AN EXPERT IS A PERSON WHO AVOIDS THE SMALL ERRORS WHILE SWEEPING ON TO THE GRAND FALLACY.

Abhishek Ramamurthy
Ex TCS Employee
Founder and Chairman,
Dumbell is Honoured by SSE Faculty

Mr. Hari Krishnan Delivered Talk on Exploring Entrepreneur

In an effort to bring high-quality information and insights about ways of achieving the dreams and goals, experts are invited every weekend to present on motivational factor and inspire the students. "A presentation expert analysed" is what makes the expert talk a successful one. Expert guests who are called to make students oblige and indulge for the betterment of their performances, deserves a significant notion.

Expert talk offers a chance to debate issues related to the field, share experiences and exchange perspectives and acts as a motivational factor to achieve goals. This renewed motivation helps to pursue goals and find enthusiasm rekindled.
A guest lecture by the Bio Medical Engineering Department on the topic “Design and development of Passive Polycentric Knee joint and Ankle Joint for Trans femoral amputees” was delivered by Dr. Kanagaraj from IIT, Guwahati on 25th July.

The mechanisms controlling and limiting movement and serving to transmit load between the femur and the tibia were discussed. Having accounted for the transmission of all components of force and couple across the joint and noted the load-bearing role of the menisci, some principles which might guide the design of knee prostheses are deduced. It is shown that current designs transgress some of these principles.

On the whole the lecture provided a clear vision on the the present invention related in general to knee joint mechanisms for use in prostheses.
International Office, SSE has organized guest lectures for the faculties of SSE on 19th July 2018. Dr. Vijayan Sugumaran, Department of Decision and Information Sciences, Oakland University, delivered the lecture “Ontology Development through Concept Map and Text Analytics: The Case of Automotive Safety Ontology”.

Highlights

Ontology is one approach to capture and represent knowledge.

Knowledge map or concept map is a network basically.

KNIME - is a tool for processing large amount of data.
TWO DAYS WORKSHOP ON AUTO SURGEONS

JULY 31 & AUG 1

MECHANICAL DEPARTMENT
Auto surgeons mean automobile assembling and dismantling. The resource person Mr. Asish Jha from Innovians Technologies, Noida delivered an introduction about automobile assembling and dismantling.

This workshop is conceptualised to impart industrial work flow to students that how automobile components function, how vehicle is conceptualised, designed and manufactured. This program provides a platform for the students which supports their engineering thoughts and give them a pragmatic experience.

 Totally **73** participants attended the workshop.

- Complete Disassembly of Car engine.
- Hands on experience on each component of car engine
- Modern assistance in emergency.
- Lecture on Advance Technologies in Automobiles
- Discussion on Vehicle Maintenance & Diagnostic
- Complete offline video assistance
- Modern car to car communications
The department of S&H takes initiate in conducting Research Forum every week. In that way the research forum of the July month are presented in this edition.

“FIBROSARCOMA TREATMENT WITH CISPLATIN ON WISTAR RATS” (A TREATEMENT FOR CANCER)

Dr. I.N.P. Srikanth delivered a lecture on the treatment of Fibrosarcoma cancer using cisplatin. Cancer a life threatening disease and shows an increased growth for the past few years, science and technology takes its all possible steps forward in providing resistant for the same. This happens to be the reason behind the research. The lecture elaborates about the chemical properties of cisplatin their pharmacological effects and toxicology. It was understood that cisplatin is highly toxic to humans and it should be taken in very less quantity combined with natural substances like flavonoids. In this way the future research progress can be explored.
WRITING IN ENGLISH has been treated as essential as conducting writing activities in the classroom which is thought to be a complex, time-taking, and less productive and less required affair. Initially, it was believed that oral proficiency in any language was the most important. It was associated with another concept that those who were good at oral proficiency or speaking skills of a language would automatically do well in writing. Language researchers and practitioners gradually established the fact that speaking and writing are two distinct language skills. Much attention ought to be paid to enhance these two skills in language classroom individually. It is a felt one that the visual approach is an effective tool which lessens the learning time. It fuels thinking and makes students concentrate and organise their thoughts. Visuals, when combined with ‘writing’, it kindles the creativity as well as the capability to summarise, analyse and criticise.
SUPRA-MOLECULAR CHEMISTRY

Dr. R. Krishnaveni spoke about the very interesting area of Supra-molecular Chemistry and the wide research interests that are associated with it. The presentation began with an introduction to it and its significance. It led on to the idea behind the host-guest chemistry and the lock and key mechanism. A detailed account on the different kinds of hosts like crown ethers, calixarenes and cyclophanes was discussed and the design and advantages of β Cyclodextrin as a host were explored. The very interesting fact that the inclusion of a guest inside the cavity of a cyclodextrin induces light emission was discussed upon. Supra-molecules open a wide arena of applications which is open for modern day research. Some of the major research areas include Drug delivery, Separation of mixtures, Molecular sensors, Switches and molecular machinery and supra-molecules as Catalysts. A lot of creative discussions and probabilities of future research emerged during the course of an overview on each application.

Supra-molecular photochemistry is another area where the chemical effect induced by radiations lying in the UV and visible region are explored. A photochemical supra-molecule comprises of the following parts- receptor, Spacer, Signaling unit and substrate. The final phase of the presentation explained supra-molecular devices in detail. These are molecules or assemblies that can perform functions such as linear or rotational movement, switching and entrapment. These devices exist at the boundary between supra-molecular chemistry and nanotechnology and prototypes have been demonstrated using the supra-molecular concept. The molecular photonic devices and molecular electronic devices were discussed for their contemporary applications.

On the whole the forum provided a fresh insight on supra-molecular chemistry with several ideas for expanding their research interests.
Research Perspectives of Stochastic Processes

DR. S. SRIKRISHNA

One of the functions of the Division of Mathematics is to promote and foster research coordination. This research colloquium is one of a number of activities that the Division is engaging in to facilitate coordination for research in various research areas. The topic “Research Perspectives of Stochastic Processes”, emphasises the need for shared knowledge and collaboration between researchers. The purpose of the research colloquium was to provide deep the knowledge in stochastic processes, types of stochastic processes, Markov process, Renewal Process, semi-Markov process, transition rates. Also, the session dealt with the scope of research in the various areas and the initiatives to make the results of research being carried out more widely accessible; and possibilities for strengthening these initiatives.

Thin Film Technology

S THANIKAIKARASAN

In this work, we have focused the effect of substrate on electrochemically grown copper oxide and copper sulfide thin films. The prepared films have been subjected to X-ray diffraction, scanning electron microscopy, Energy dispersive X-ray analysis, UV–Visible spectroscopic techniques for the determination crystalline nature, morphology, composition and optical properties. X-ray diffraction results indicated the deposited films exhibited cubic structure with most reflection along (110), (220) planes for copper oxide and copper sulfide. Scanning electron microscopy along with energy dispersive analysis by X-rays showed that films with uniform morphology and nearly stoichiometry have been obtained for film obtained on SnO2 substrate. Optical absorption and transmittance measurements showed that the deposited films exhibited band gap value of 2.28 and 2.45 eV for copper oxide and copper sulfide.