



NEW HORIZON
COLLEGE OF ENGINEERING
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National Seminar— “New Space – An Era of Small Satellites : Opportunities and Challenges”

**NATIONAL SEMINAR ON:
 NEW SPACE - AN ERA OF SMALL SATELLITES:
 OPPORTUNITIES AND CHALLENGES**













<p>Chief guest- Padmashri prof R.M. Vasagam, Ex ISRO & Ex. VC, Anna University</p>	<p>Venue - NHCE Auditorium Time - 9:30 to 17:00 Date - 11th April 2019</p>
<p>Registration fee (Members): Rs. 200 Registration fee (non Members): Rs. 300 Register at: http://bit.ly/satcon2019</p>	<p>Contact: Athira - 9035005526 Shyam - 8792878296</p>

A National Seminar on “New Space – An Era of Small Satellite: Opportunities and Challenges” was hosted by ITCA (Indian Technological Congress Association) , supported by IEEE NHCE Student Branch, NHCE R&D team and the Department of ECE. It was also hosted under the

umbrella of societies such as MTS (Marine Technological Society) and other organizations such as Planet Aerospace, UNISEC India (University Space Engineering Consortium) and The Maz Israel Satellite and Aerospace Technologies, on 11th April 2019 from 10 am to 5:15 pm.



The Master of Ceremony, Ms. AthiraAjayakumar, addressed the gathering on the agenda of the program. The HoD of ECE, Dr. Sanjeev Sharma, presented the Welcome Address and set the context of the program. Ms. AthiraAjayakumar shared the evolution of the NHCE Student Satellite Program, which was validated by showing a video of the same to the audience. After which, the Principal of NHCE, Dr. Manjunatha, shared his thoughts on the rapid progress of the NHCE Student Satellite Program.



Ms.Athira briefed the audience on “UNISEC” abbreviated as University Space Engineering Consortium and announced that NHCE is first in India to open a Local Chapter of UNISEC. The Inauguration of the UNISEC-NHCE Chapter was done by Padmashri. Prof. R. M. Vasagam, the Chairman of Aerospace Engineering Division, the Institution of Engineers, followed by the launch of the official website of UNISEC India.



The keynote Speech by Padmashri. Vasagam, gave a brief outline on the different Satellites. Not only did he talk about his experience working in ISRO and on his projects but also encouraged students in making their own satellites. He also launched Mr. Sanketh S Huddar's (a Third year NHCE student from Computer ScienceEngineering) startup called as GeekSpace. Mr. Sanketh talked about his startup and about his success so far.



Configuring a spacecraft and the challenges it poses while building it, was dealt by the President of Planet Aerospace, Mr. R.K Rajangam. He went in depths on the technical configuration of building satellites. He also offered various solutions to the most commonly seen problems that occurs while building satellites. Mr.Venkat Rao, Former Systems Engineer for Electro-Optical

Payloads of ISRO, explained about the different payloads. He shared his technical experience in working with different payloads and the different criterions one must take care while working with payloads.



Post lunch break, Sudip Kar, founder of D’VINE Research Labs, emphasized on the commercial aspects of the Satellite Industry. He briefly explained the various subsystems present in a small satellite and how satellites are crucial in this era.



Ms. Pramitha Ramaprakash, Founder of Transcend Satellite Technology, informed the audience about CubeSat and CanSat. She explained the System Design of a CubeSat, the Quality Testing of satellites, the software development. She also intimated the students on the CanSat Challenge, which will be held in Serbia, encouraging students to take part in this challenge. Dr.Nisha IEEE NHCE SB councilor has presented a memento to Ms. Pramitha

The final speaker was Shri B. A Subramani, Secretary and Station-in-Charge of ISRO's Upagrah Amateur Radio Club, propagated enthusiasm among students to join and venture the HAM society. He pointed out the various free frequencies one can transmit and receive message though and also highlighted the advantages of Satellite Communication over Terrestrial Communication.



150 students from various departments and semesters of NHCE and few faculty members were the benefitted attendees of the event.

Ms. Athira concluded the session by expressing gratitude to all the speakers, the organizing team, faculty and students.

End of the Report