

## **REPORT ON THE EVENT – “The Wandering Earth” held on 27<sup>th</sup> and 28<sup>th</sup> May 2022**

The Astronomy club of PSG Institute of Technology and Applied Research, Coimbatore conducted a talk event on the topic “The Wandering Earth” on 28<sup>th</sup> May, 2022 between 11 am to 12:30 pm in the seminar hall of Civil block (E5). Dr M Chrisphin Karthick, Scientist-C & Deputy head SCOPE, Indian Institute of Astro Physics (IIA), Bangalore was the chief guest for the event. The event was graced by the presence of our PSGiTech Dr G Chandramohan, Principal, Dr M R Srinivasan, HoD Physics and the faculty In charge of Astronomy club Dr S Maruthamuthu, Associate professor Department of Physics, along with the other department faculties and 70 students.

The event was coordinated and organized by the club President Manish R K of 3<sup>rd</sup> year Civil, the Vice President Gowsika D of 3<sup>rd</sup> year ECE, the Secretary Subiksha M of 3<sup>rd</sup> year Civil, the Joint Secretary Mirdhulaa K B of 2<sup>nd</sup> year EEE, the Treasurer Pandiaraj S of 3<sup>rd</sup> year Civil and student members of Astronomy club. The MC was elegantly done by Aakarshna 1<sup>st</sup> year EEE and Dharsana J 1<sup>st</sup> year EEE. The moments of the event were captured by Jarvis Chellizelig R of 1<sup>st</sup> year Mechanical.

The event started with a soulful prayer song by Hari Nandhana 1<sup>st</sup> year EEE by 11am. A short video was played for the audience about the “Stargazing Treat” event which was held on 27<sup>th</sup> May Friday from (8 pm to 10 pm) on E7 block roof top in which 80 students from (I to III year participated). The video also showed the same event which was continued on 28<sup>th</sup> May Saturday from (4 am to 6.30 am) in which 20 students participated to view the planets using the CELESTRON NEXSATAR 4SE AND CELESTRON ASTRO MASTER 130 EQ telescope. The stargazing Treat was felicitated by the chief guest and the faculty In charge along with the support of Naveen Prakash M S of 1<sup>st</sup> year Mechanical, Vetriselvam S B and Dhruwin Raj D of 1<sup>st</sup> year Civil. The video was created and edited by Jarvis Chellizelig R. This was followed by the welcome address given by Manish R K. The presidential address was delivered by the principal, Dr G Chandramohan followed by the chief guest introduction, by Gowsika D of III EEE.

The chief guest Dr M Chrisphin Karthick started to address the gathering by 11.30 am by explaining the various concepts in Astronomy. To start with, he spotted different fields in Astronomy—Solar studies, planetary sciences, Galactic research, Extra galactic research, cosmology (Big Bang), Theoretical studies, Instrumentation and Celestial Mechanics. He then highlighted the fact, how the earth is just a tiny spot by giving the “The

Pale Blue Dot”, photograph of Earth taken Feb. 14, 1990, by NASA’s Voyager 1 at a distance of 3.7 billion miles (6 billion kilometres) from the Sun. He also highlighted the recent first image of black hole known as Sagittarius A\* that was produced by a global research team called Event Horizon Telescope Collaboration using observations from a world-wide network of radio telescopes. He explained the reason behind the optical telescopes that were placed at higher altitudes and the UTC +5:30 offset used in India. He spoke about the different telescopes available such as the 3.6m diameter Devasthal optical telescope built by Aryabhata Research Institute of Observational Sciences (ARIES) located near Nainital, Uttarakhand, India. He played a video showing the insider of the observatory centre and the working of the telescope. He discussed about the Vina Bappu Observatory, operated by IIA located in Kavalur in Javadi Hills, Vellore district. It is a 2.3m telescope and is one of the biggest observatories for stargazing and research on stars. He played many short videos that gave the basic understanding of the relative motion of celestial bodies in the space that highlighted the fact that nearest objects move faster relative to the farthest objects. He explained the fact that the Sun and our whole solar system orbits around the centre of the Milky Way Galaxy and also in the summer the Sun rises in the northeast and sets to the northwest while at the winter the Sun rises in the south and sets to the southwest. Finally, he concluded by giving various interesting insights on Astronomy.

During the question answer session an interesting question about white hole was raised by Pavan of I Mechanical and few specific question regarding the resolution and exposure time of the telescope by Dr M R Srinivasan.

Further, in the feedback session Mithilesh Ravishankar of 1<sup>st</sup> year ECE gave a gist of the “Stargazing treat” event that actually gave fulfilment to our guest. He highlighted the interesting techniques of handing the telescope and viewing the planets which was appreciated by all. By the time 12:30 pm, our principal honoured the chief guest with a memento. The event then was concluded with the Vote of Thanks by Mirdhulaa K B II EEE.

Dr S Maruthamuthu  
ASP – Physics  
Astronomy club In-charge