


II M.Sc Students' International Symposium on Nuclear Technology Participation Report

Venue: Powell Hall, Presidency College, Chennai – 600 005

Date: July 24, 2023

Time: 11.00 a.m.



Presidency College (Autonomous)
Chennai – 600005

Department of Physics
Cordially invites you for the

***International Symposium on
Nuclear Technology***

Presided by
Dr. R. Raman
Principal

Lecture by
Dr. Roman Fomin
Obninsk Institute for Nuclear Power Engineering
National Research Nuclear University MEPhI
Russia 249034

Convener: Dr. S. Vijayalakshmi
Head, Department of Physics

Coordinator: Dr. R. Rathikha
Organizers: The Faculty Members of Physics

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On July 24th, 2023, at Powell Hall, Presidency College, a Symposium on Nuclear Technology took place, featuring five enthusiastic M.Sc. students: Johny Jayaraj (22-PPH-003), Akshayaharshini (22-PPH-011), Hansel A (22-PPH-016), Melencia Fredina A.S. (22-PPH-023), and Muthamizh C (22-PPH-023).

Dr. Roman Fomin, from the esteemed Obninsk Institute for Nuclear Power Engineering in Russia, delivered a captivating lecture. He discussed the latest breakthroughs, challenges, and future prospects in nuclear technology. The lecture covered nuclear technologies and their diverse applications, from power generation to medicine, pest control, and radiological research.

Dr. Fomin compared nuclear power with renewable sources like solar and wind power, highlighting its advantages, including stable power supply regardless of weather conditions. The interactive Q&A session delved into waste management, material research, zero carbon emissions in nuclear power plants, and possibilities for alternate nuclear fission sources. Dr. Fomin also explored the potential of nuclear power for space travel.

The symposium left a lasting impact, enkindling the students' interest in nuclear physics and informing them about the wide-ranging applications and scope of nuclear technology. Dr. Fomin's vision for the future included Generation 3+ and 4 technologies, closed nuclear fuel cycles, and advancements in space exploration and energy generation through nuclear technology.

Overall, the Symposium on Nuclear Technology provided a comprehensive understanding of the field's potential and limitations, inspiring the students to explore further and contribute to the ever-evolving world of nuclear science.

The Department of Physics at Loyola College extends heartfelt congratulations to the student participants. As the students embark on their paths in nuclear technology, the Department of Physics at Loyola College wishes them a bright and successful future.

