



Session IV: Nuclear Energy and Reactor Engineering (NERE)

- Venue : Auditorium, Atomic Energy Centre, Dhaka
- Time : 17:00 – 18:30
- Chair(s) : Prof. Md. Mamunur Rashid, PhD
Dept. of Electrical and Electronic Engineering, University of Scholars
- : Mohammad Mizanur Rahman, PhD
Director & Chief Scientific Officer
Institute of Energy Science, AERE, Savar
- Invited Lecture : **Nuclear in Everyday Life: From Misconception to Clean Energy Future**
IL-03
Mohd Syukri Yahya, PhD
Project Director (Nuclear)
Technology & Engineering Dept.
Tenaga Nasional Berhad (TNB) Power Generation Company (Genco),
Malaysia

Contributory Papers:

Abstract ID	Title	Author Name(s)
NERE01-035	Neutronics Analysis of Spent Nuclear Fuel Dry Cask Storage of VVER-1200	Kazi Labiba Rahman Aurna, Roshlan Rahman Dipto, and Abdus Sattar Mollah
NERE02-064	Designing Bangladesh's Joint Nuclear-Intelligence Fusion Cell (JIFC): A Layered Machine-Learning Framework for Predictive Border Interdiction and Regulatory Support	Mhamudul Hasan Sami, Sajib Islam Mahin, Mahbub Murshed, and Afia Fahmida Chowdhury
NERE03-082	Neutron Imaging for nuclear and radiological security in Bangladesh—Prospects and Possibilities	Nazifa Tasnim, Mhamudul Hasan Sami, and Sadia Noushin Promi
NERE04-085	Integrated Subchannel and Conjugate Heat Transfer Analysis of NuScale Type Small Modular Reactor Using ANSYS and COMSOL Software	Sharmin Sultana Sheuly, Sadia Islam Meem, and Noor-Al-Din
NERE05-157	Neutronic Impact of SiC Nanoparticle-Reinforced E110 Cladding for VVER-1200 Fuel Assembly Using OpenMC	Purba Meghwati Nakshi, Meherun Nessa, and Abdus Sattar Mollah
NERE06-158	Comparative Thermal Performance of Conventional E110 and E110-5%SiC Nanocomposite Cladding for VVER-1200 Fuel Rods	Meherun Nessa, Purba Meghwati Nakshi, and Abdus Sattar Mollah
NERE07-250	Load Rejection Transient Analysis of VVER-1200 Reactor at Different Power Levels Using PCTAN	Md. Marufur Rahman Reyad, Noor Zahin, Kristy Gourab Sinha, Samaila Islam, and Md Asaduzzaman