

International Symposium on Advances in

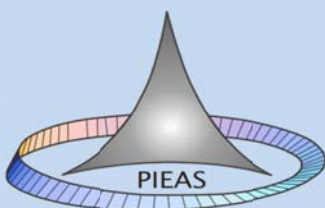
Nuclear Engineering

Oct 08 to 10, 2018

Organized by:

Department of Nuclear Engineering

Pakistan Institute of Engineering and Applied Sciences Islamabad



Monday 08 October, 2018

0830 – 1030

Registration

1030 – 1045

Tea Break

1045 – 1145

Plenary Session

1200 – 1300

Opening Ceremony

1300 – 1400

Prayer Break/Lunch Break

Technical Session 1

Session Chair: Prof. Syed Shoaib Raza

1400 – 1430

**Professor Nahrul Khair
Bin Alang MD Rashid
(Key Note Speaker)**

Developing nuclear power infrastructure in Malaysia - a nuclear renaissance?

1430 – 1500

**Professor Raimon
Pericas
(Key Note Speaker)**

RELAP/SCDAPSIM Fukushima Related Activities

1500 – 1515

**Junaid Faizan, Muhammad
Omair Khan, Muhammad
Ilyas**

Simulation of Freon CHF Phenomena with RELAP 5 Mod 4 Computer Code

1515 – 1530

**Muhammad Daniyal
Nauman, Muhammad Ilyas,
Khalid Waheed, Masroor
Ahmed**

Design and thermal hydraulic analysis of an innovative steam generator for the next generation SMR's

1530 – 1545

**Hira Sharif, Memoona
Tariq, Said Kashif, Imama
Zaidi**

Application of CFD in Risk Assessment

1545 – 1600

**Ammar Ahmed, Ajmal
Shah, Kamran R. Qureshi**

CFD investigation of iodine removal efficiency in venturi scrubber

Tuesday 09 October, 2018

Technical Session 2

Session Chair: Professor Nahrul Khair Bin Alang MD Rashid

0900 – 0930	Professor Yunzhao Li (Key Note Speaker)	NECP-Bamboo: A PWR-core fuel management calculation code system
0930 – 1000	Professor Zafarullah Koreshi (Key Note Speaker)	Variational Optimization With Multi-Group Neutron Diffusion Equations: A Two-Group Diffusion Model Validated With Monte Carlo
1000 – 1015	Bukhtiar Mohsina , Siraj-ul-Islam Ahmad, Nadeem Shaukat, Ahmad Shaheryar	Neutron Energy Spectrum Unfolding Using Stochastic Techniques
1015 – 1030	Muhammad Qasim Awan, Liangzhi Cao, Hongchun Wu	Excess Reactivity Management in PWR loaded with Accident Tolerant Fully Ceramic Microencapsulated (AT-FCM) Fuel: Lattice Level Analysis
1030 – 1045	Muhammad Waqas Tariq , Muhammad Sohail, Sikander Majid Mirza	Calculation of Reactivity Temperature Coefficients for Potential LEU/ MEU Fuels of MNSR
1045 – 1100	Zohaib Butt, Tariq Mahmood, Rizwan ali	Determination of Power Coefficient of Reactivity for a typical MTR using neutronics-Thermal Hydraulics Coupling and its Experimental Validation

1100-1130

Tea Break

Technical Session 3

Session Chair: Prof. Rafiziana Binti Kasmani

1130 – 1200	Professor Azhar H. Malik (Key Note Speaker)	Compton Camera as an Imaging Tool for Weak Sources: Challenges and Developments
1200 – 1215	Dr. Irfan Younus	Experimental study to capture aerosol particle released from NPP in severe accident situation
1215 – 1230	Saqib Rehman , Khalid Waheed, Naseem Irfan, Masroor Ahmad	Experimentation investigation of radioactive iodine removal efficiency on pilot scale FCVS experimental setup
1230 – 1245	Mahmood Ahmad , Masroor Ahmad, Khalid Waheed	Radiochemical Studies for Efficient Retention of Volatile Iodine in FCVS Scrubbing Solution
1245 – 1300	Suhail Ali , Kamran R. Qureshi, Khalid Waheed	Experimental Investigation of Aerosols Removal Efficiency Through Self-Priming Venturi Scrubber

1300-1400

Prayer Break/Lunch Break

Technical Session 4 Session Chair: Professor Dr. Zafarullah Koreshi		
1400 – 1430	Dr. Jahangir A. Satti (Key Note Speaker)	Implementation of linear accelerator based radio-surgery for cranial treatments
1430 – 1500	Dr. Imtiaz Ahmad (Key Note Speaker)	Nuclear Disarmament and Safeguards in the Global Non-Proliferation Regime
1500 – 1515	Dr. Hamid Saeed Raza	A Review of Regulatory Frame Work for High Assay Low Enriched Uranium (HALEU) Fuel
1515 – 1530	Dr. Javed Iqbal	Time Limited Ageing Analysis of Reactor Containment
1530-1545	Aurangzeb , Bashir Ahmed , M. Rizwan, G. B. Shah, Azhar H. Malik	Development of Polymer Composite Materials for Gamma Shielding
1545-1600	Muhammad Rizwan , Waqas Arshad, Azhar H. Malik, Rizwan Ahmad	Re-construction of Equivalent Disk Source using point source technique

Wednesday 10 November, 2018 Technical Session 5: Session Chair: Professor Dr. Raimon Pericas		
0900 – 0930	Professor Rafiziana Binti Md. Kasmani (Key Note Speaker)	Nuclear Engineering Education in Malaysia: Opportunities and Challenges
0930 - 1000	Professor Aman Ur Rehman (Key Note Speaker)	Status of ATER Project
1000 – 1015	Sehrish Shakir , Riaz Khan*, Shahab Ud-Din Khan	Microwave Assisted Plasma Studies on GLAST III Tokamak
1015 – 1030	Shahab Ud-Din Khan , Riaz Khan*, Sehrish Shakir	Steady state and transient analysis of novel design Helium Cooled Ceramic Blanket (HCCB) system of China Fusion Engineering Test Reactor (CFETR)
1030 – 1045	Muhammad Waqas , Sajjad Tahir	Comparitive study of different types of transmission lines and their applications for charged storage devices for pulse comprasion and nanosecond discharges at high voltage
1045 - 1100	M. Sohail Azam , Azhar H. Malik, Masroor Ahmad, Adul Qayyum	Laser Based High Current Electron Sources
1100-1130	Tea Break	
1130-1300	Poster Session/Campus Tour	

1300-1400			Prayer Break/Lunch Break		
Technical Session 6:					
Session Chair: Dr. Tariq Majeed					
1400 – 1430	Professor Tariq Majeed (Key Note Speaker)		Nuclear Security Culture		
1430 – 1445	Ali Khalid , Waseem Siddique, Inam ul Haq		Numerical analysis of heat transfer augmentation in a two-pass trapezoidal channel with wavy base corrugation		
1445 – 1500	Muhammad Zeeshan Bari , Syed Shoaib Raza, Qaiser Nadeem, Rizwan Ali		Analysis of Climate Change and Global Warming on Dispersion of Airborne Radioactivity Released from a Nuclear Reactor under Accidental Condition		
1500 – 1515	Manahil ali , Syed Mujtaba Ul Hassan		Facile fabrication of mesoporous alumina by hydrothermal approach for drug delivery		
1515 – 1530	Muhammad Sheraz , Nadeem Qaiser, Rizwan Ali		Development of real-time emergency decision support system for nuclear power plant		
Closing Ceremony					