Faculty Profile

Full Name: Syed Anwar ul Hasson

Position/ Designation: Chairman/Associate Professor

Faculty/Department: Department of Mechanical Engineering

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Experience

Experience of around 30 years in academia as full-time faculty member. Served in several capacities including Head (Examination), Head (Admission), Head (Mechanical Engineering), Head (MS Program), Senior Head (Programs Development), Senior Head (Maintenance & Technical Training), and Manager ORIC.

Educational Information

Ph.D. (Mechanical Engineering) from KAIST, South Korea
M.Sc. (Power Plant Engineering) from NED UET
P.G.D. (Power Plant Technology) from KINPOE College of PIEAS
B.E. (Mechanical) from NED UET

Research/Publications

1. Mahmood Khan, **Anwar ul Hasson Syed**, et al. Physical and mechanical properties of Graphene Nanoplatelets Reinforced Al6061-T6 Composites processed by Spark Plasma Sintering, *International Symposium on Advanced Materials 16th ISAM October 21 – 25, 2019 NCP, Islamabad, Pakistan*
2. Muhammad Taqui, **Anwar ul Hasson**, et al. (2016) Utilization of different industrial wastes in concrete as a cement replacement material and its effects on strength, *International Journal of Scientific Research in Knowledge*, 4(1), pp. 020-027.
3. M. Wahaj, M. Asim, **Anwar ul Hasson** et al. (2016) Indigenous Scheming and Manufacturing of a Laboratory Scale Heat Treatment Furnace - Technical Report, *Journal of Institute of Engineering*, Vol 12 Issue 01, pp. 115-161.
4. Owais Ahmed Waeem, **Anwar ul Hasson**, et al. (2016) Degradation Due to Aging in Extraction Steam Piping of Nuclear Power Plant, *International Journal of Advance and Applied Sciences* Vol 03, Issue 07, pp. 75-80.
5. Syed Nadeem Ehsan, **Anwar ul Hasson**, et al. (2013) Machine Learning Based Fault Prediction System for the Primary Heat Transport System of a CANDU Type Pressurized Heavy Water Reactor (2014), *International Conference on Open Source Systems & Technologies (ICOSST)*, Lahore, Pakistan. (2013) (DOI: 10.1109/ICOSST.2013.6720608)
6. **Syed, A.H.**, Ahmed, Dewan and Sung, H.J. (2010) Performance of sub-cooled PEMFCs". *International Journal of Energy Research* Vol 35, Issue 5, pp 365-375.
7. **Syed, A.H**. and Sung, H.J. (2009) Effect of an Exit-Wedge Angle on Pinch-off and Mass Entrainment of Vortex Rings in Air. *Flow, Turbulence and Combustion*, Vol.82, No.3, pp.391-406, 2009.
8. **Syed, A.H.** and Sung, H.J. (2009). Propagation of orifice- and nozzle-generated vortex rings in air. *Journal of Visualization* 12(2): 139-156: 2009.
9. Faisal Ahmed, **Syed Anwar ul Hasson**, Mehmood Khan. (2019) Carbon Steel calibration tube inspection by Internal Rotary Inspection System (IRIS) Technique, *Proceedings of SIMEC-2019*, 15-16 March 2019, Karachi Pakistan.
10. K.A. Pansota, **A.H. Syed**, Owais A.W., M. Tufail (2013) Synthesis of Fire Retardant Nano Clay Composite, *Proceedings of 3rd Naval Engineering* Conference (05 December 2013), PNEC- NUST, Karachi, Pakistan.
11. U.S. Bajwa, **A.H. Syed**, M. Tufail (2013) Investigation of Counter Current Flow Limitation in Pressurized Water Reactor in case of Loss of Coolant Accident, *Proceedings of 3rd Naval Engineering Conference*, 05 December 2013, PNEC-NUST, Karachi, Pakistan.

12. Owais A.W., **Anwar ul Hasson**, M. Tufail (2013) Steel Properties Determination via Eddy Current (2013), *Proceedings of 3rd Naval Engineering Conference* 05 December 2013, PNEC- NUST, Karachi, Pakistan.
13. **Syed, A.H.** (2010) Performance variation of PEMFCs with different ambient and inlet temperatures, *3rd National Conference on Energy & Environment (3NCEE)*, 18-20, March, 2010 QUEST, Nawabshah, Pakistan.
14. **Syed, A.H.** and Sung, H.J. (2008) Effect of an exit geometry on entrainment and propagation of vortex rings. *4th International Conference on Vortex Flows and Models (ICVFM*), 21-23 April 2008, Daejon, K A.H. Syed, A.H. Syed, South Korea.
15. **Syed, A.H.** and Sung, H.J. (2008) Effect of exit-wedge angle of a cylindrical nozzle on the pinch-off of vortex rings. *12th Asian Congress of Fluid Mechanics*, 18-21 August 2008, Daejon, South Korea.
16. **Syed, A.H.** and Sung, H.J. (2007) Diffusive mass entrainment of a vortex ring: A comparison between orifice- and nozzle-generated vortex rings. *KAIST-U of T Joint Students Workshop*, 13-15 February 2007, University of Tokyo, Tokyo, Japan.
17. **Syed, A.H.** and Sung, H.J. (2005) PIV measurement of vortex rings in air. *Korean Society of Visualization, Fall Annual Meeting*, 1-2 December 2006, Busan, South Korea.
18. **Syed, A.H.** and Sung, H.J. (2006) Pressurized-air computer-controlled solenoid-valve vortex ring generator: A novel design to produce vortex rings in air. *4th National Congress on Fluids Engineering*, 23-25 August 2006, Kyungju, South Korea.