

RESUME

Name: **Dr. Ashwini Kumar Yadav**

Assistant Professor

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Education

Year	Degree	University
2014	Ph.D	Indian Institute of Technology, Roorkee
2008	M.Tech	Indian Institute of Technology, Delhi
2006	B.E	University of Rajasthan, Jaipur

Area of Interest

Heat transfer, CFD, Transient Thermo-mechanical Fuel Channel response, Power plant performance, Fluid structure interfacing (FSI), Modeling and Simulations.

Industrial Experience

30 June 2008 – 1 Sept 2009

Larsen& Toubro Ltd. E&C Division (BU – Hydrocarbon and power)

Worked as Senior Engineer, with responsibilities of scheduling in MSP & PRIMAVERA, Cost estimation, Monthly progress reports, productivity analysis, System compliance reports.

Research Experience

01 April 2016- 25 Mar 2018

Korea Atomic Energy Research Institute (KAERI), South Korea: Developed experimental facility to access transient behavior of cladding under Design extended condition with modeling in NRC code- FRAPTRAN.

Teaching Experience

National Institute of Technology Uttarakhand

25 July 2013-26 Feb 2016

Worked as Assistant professor and conducted courses on Thermodynamics, Fluid Mechanics, Applied Thermodynamics and Heat transfer for B.Tech programme. Apart from that lab establishment and Associate Wardenship were additional responsibilities.

Motilal Nehru National Institute of Technology Allahabad

27 April 2018 onwards

Working as Assistant professor and conducted courses on Engineering Thermodynamics, Computational Fluid Dynamics and Power Plant Engineering.

International Journals

1. Yadav, A. K; Majumdar, P; Kumar, R; Chatterjee, B; Gupta, A; Lele, H.G; 2013,"Experimental investigation of symmetric and asymmetric heating of pressure tube under accident conditions for Indian PHWR," Nuclear Eng. and Design, Issue-254, pp-300-307. (Elsevier, Impact factor 1.4)
2. Yadav, A. K; Majumdar, P; Kumar, R; Chatterjee, B; Gupta, A; Mukhopadhyay, D; 2013,"Experimental simulation of asymmetric heat up of coolant channel under small break LOCA condition for PHWR," Nuclear Engineering and Design, Issue-255, pp-138-145. (Elsevier, Impact factor 1.4)
3. Yadav, A. K; Kumar, R; Gupta, A; Chatterjee, B; Majumdar, P; Mukhopadhyay, D; 2013,"Thermo-mechanical behavior of pressure tube under small break loss of coolant accident for PHWR," Journal of Pressure Vessel Technology, vol. 135/041601. (ASME)
4. Yadav, A. K; Kumar, R; Gupta, A; Chatterjee, B; Majumdar, P; Mukhopadhyay, D; 2014,"Experimental Investigation on circumferential and axial temperature gradient over fuel channel under LOCA," Heat and Mass transfer, Vol. 50, pp-737-746. (Springer, Impact factor 1.4)
5. Yadav, A. K; Shin, Chang-Hwan; Lee, Sung-UK; Kim, Hyo-Chan; 2018. Experimental and Numerical Investigation on Thermo-mechanical Behavior of Fuel rod under simulated LOCA conditions. Nuclear Engineering and Design, Issue-337, pp-51-65. (Elsevier, Impact factor 1.4)
6. Yadav, A. K; Lee, Chan; Lee, Sung-UK; Shin, Chang-Hwan; Kim, Hyo-Chan; 2019. Experimental investigations on out-of-pile single rod test using fuel simulator and assessment of FRAPTRAN 2.0 ballooning model. Annals of Nuclear Energy, Issue-124, pp-234-244. (Elsevier, Impact factor 1.47)
7. Yadav, A. K; Shin, Chang-Hwan; Lee, Chan; Lee, Sung-UK; Kim, Hyo-Chan; 2019. Numerical Modelling of Fuel rod Transient response under Out of Pile Test Conditions. Progress in Nuclear Energy, Issue-113, pp-62-73. (Elsevier, Impact factor 1.46)

Conferences

1. Yadav, A. K; Kumar, R; Gupta, A; Chatterjee, B; Mukhopadhyay, D; Lele, H.G; 2011,"Thermal behavior of pressure tube under fully and partially voided conditions using 19 pin fuel element simulator," NRT-4, Bhabha Atomic Research Centre, Mumbai, Page-130.
2. Yadav, A. K; Kumar, R; Gupta, A; Majumdar, P; Chatterjee, B; Lele, H.G; 2012. An

Experimental Investigation on the Behavior of Pressure Tube Under Symmetrical and Asymmetrical Heating Conditions in an Indian PHWR. World academy of science, Engg. And Tech., Vol.6 (3), pp-592-596.

3. Yadav, A. K; Kumar, R; Gupta, A; Majumdar, P; Chatterjee, B; Mukhopadhyay, D; Lele, H.G; "Experimental investigation on thermal behavior of fuel channel under small break LOCA in Indian PHWR," NURETH-15, Pisa, Italy, May 12-15, 2013, Page-60.
4. Yadav, A. K; Kumar, R; Chatterjee, B; Gupta, A; Mukhopadhyay, D; Majumdar, P; 2013, "Experimental investigation on sagging behavior of full length Pressure Tube with garter springs under LOCA," ISHMT-ASME, IIT Kharagpur, Dec 28-31, Paper no. HMTTC1300048.
5. Yadav, A. K; Shin, Chang-Hwan; Inn, Wang-Kee; Kook, Dong-Hak; 2016. Experimental facility to study transient thermo-mechanical behavior of the clad tube under high temperature conditions. KNS-Autumn Meeting, Korea, 16A-131, October 27-28.
6. Yadav, A. K; Shin, Chang-Hwan; Lee, Sung-UK; Kim, Hyo-Chan; 2017. Experimental investigation on transient thermo-mechanical behavior of cladding under LOCA using fuel simulator. KNS-Spring Meeting, Korea, 17S-119, May 17-19.
7. Yadav, A. K; Lee, Chan; Lee, Sung-UK; Shin, Chang-Hwan; Kim, Hyo-Chan; 2017. Experimental study to predict effect of Azimuthal Temperature Difference on Thermo-mechanical Behavior of Clad tube. Proceedings of WRFPM 2017, Jeju island, Korea, A-146, Sept 10-14.
8. Yadav, A. K; Lee, Chan; Lee, Sung-UK; Shin, Chang-Hwan; Kim, Hyo-Chan; 2018. Simulation and Modeling of Cladding Thermo-mechanical Behaviour under LOCA. KNS-Spring Meeting, Korea, 18S-005, May 17-18.
9. Lee, Chan; Yadav, A. K; Shin, Chang-Hwan; Kim, Kyung-Doo; 2018. Establishment and Testing an Integrated LOCA Experiment Setup. KNS-Spring Meeting, Korea, 18S-147, May 17-18.
10. Yadav, A. K; Lee, Chan; Lee, Sung-UK; Shin, Chang-Hwan; Kim, Hyo-Chan; 2018. Numerical simulation of thermo-mechanical coupled behavior of clad tube under simulated intermediate break LOCA. Proceedings of IHTC 16-23697, August 10-15.