

## Profile Page



Name : Dr Deepak Sahu  
Designation : Assistant Professor  
Department : Chemical Engineering  
Qualification : PhD Chemical Engineering (IIT Roorkee)  
M.Tech Chemical Engineering (IIT Roorkee)  
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### **Research Interests :**

CFD, Fluid Mechanics, Heat Transfer, Process Safety, Fire Dynamics, Modeling and Simulation, Waste to Energy

### **Other Profile Links :**

#### **Google Scholar Link :**

Dr Deepak Sahu [Click Here](#)

#### **Personal Web Link :**

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### **Journal Publications :**

Year	Journal	Publication
2020	Journal of the Indian Chemical Society	Deepak Sahu, Shorab Jain, Akhilesh Gupta, Surendra Kumar. Effects of different fuel on development of fire inside the compartment.
2019	Fire Safety Journal, Vol 109, 102858	Deepak Sahu, Shorab Jain, Akhilesh Gupta, Surendra Kumar. "Experimental studies on different liquid pool fires inside the compartment".
2017	Building Simulation, Vol. 10, 351-364	Deepak Sahu, Shashi Kumar, Shorab Jain, Akhilesh Gupta, "Full scale experimental and numerical studies on effect of ventilation in an enclosure diesel pool fire"
2016	Fire and Materials, Vol. 40, 1016-1035	Deepak Sahu, Shashi Kumar, Shorab Jain, Akhilesh Gupta "Experimental and numerical simulation studies on diesel pool fire"
2015	Procedia Earth and Planetary Science, Vol 11, 507-515	Deepak Sahu, Shorab Jain, Shashi, Akhilesh Gupta "Experimental study on methanol pool fires under low ventilated compartment"

## Conference Publications :

Year	Conference	Publication
2020	International conference on “Advances in Chemical Engineering-2020 (AdChE-2020), University of Energy and petroleum Studies (UPES) Dehradun, February 5-7, 2020.	Ankita Sharma, Deepak Sahu, A. K. Tiwari. Effect of shear-thinning fluid in Y-channel
2020	International Conference on Chemical, Bio & Environmental Engineering (CHEMBIOEN-2020), NIT Jalandhar, February 13-14, 2020	Ankita Sharma, Deepak Sahu, A. K. Tiwari. Creeping flow of a Bingham Plastic fluid past a Rectangular Cylinder
2020	International Conference on Chemical, Bio & Environmental Engineering (CHEMBIOEN-2020), Department of Chemical Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, February 13-14, 2020	Gaurav Vinayak, Pragya Sharma, Deepak Sahu. Effects of fuel location in a confined enclosure.
2020	International Conference on Chemical, Bio & Environmental Engineering (CHEMBIOEN-2020), Department of Chemical Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar February 13-14, 2020	Arpit Jain, Banoth Abhsihek Nayak, Deepak Sahu. Effects of ventilation on fire behavior inside the confined enclosure.
2019	International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2019)15-16 Feb, 2019, NIT Warangal, India	Deepak Sahu, Jaspreet Chawla, Sangeeta Garg.Numerical studies on fire behavior inside the confined area
2019	4th World congress on disaster management, Jointly organized by Govt. of Maharashtra , DMICS, TISS,IIT Bombay - India	Deepak Sahu Jaspreet Chawla, Sangeeta Garg.Numerical studies on development of fires inside the large size enclosure.
2019	International conference on Energy and Environment: Challenges and Opportunities for industries (ICEE-2019), MNIT Jaipur, 28-29 Dec 2019.	Ankita Sharma, Deepak Sahu, A. K. Tiwari, Natural Convection heat transfer from the heated rectangular cylinder in quiescent shear-thinning fluid: effect of orientation.
2018	71th Annual Session of Indian Institute of Chemical Engineers CHEMCON–2018	Deepak Sahu, Shorab Jain, Akhilesh Gupta, Surendra Kumar. Numerical simulation of diesel pool fire inside the enclosure.
2018	71th Annual Session of Indian Institute of Chemical Engineers CHEMCON–2018	Deepak Sahu, Jaspreet Chawla, Sangeeta Garg. Numerical Studies on effects of ventilation in enclosure fires.
2017	Recent Trends In Chemical Sciences & Engineering (RTCSE, 2017) Organized by Department of Chemical Engineering, National Institute of Technology Hamirpur (H.P.), October 13-14, 2017	Harshit Sharma, Sahil Rathore, Deepak Sahu, "A Review Study of Fire Occurrences in Open Environment"
2017	Recent Trends In Chemical Sciences & Engineering (RTCSE- 2017) organized by Department of Chemical Engineering, National Institute of Technology Hamirpur (H.P.) & October 13-14, 2017	Vasu Nath Mehta, Deepak Sahu "An overview of Fire Dynamics inside the Compartment"
2014	Conference on "Fire Research and Engineering" organized by Department of Mechanical and Industrial Engg., IIT Roorkee, Uttarakhand – India, March 1-2 , 2014	Sahu et al.,"Experimental Studies on Propane Pool Fire Inside the Compartment"
2013	International Conference on Advances in Chemical Engg. (ACE-2013) organized by Department of Chemical Engg., IIT Roorkee, Uttarakhand – India, February 22-24 , 2013	Sahu et al.,"Experimental Studies and Numerical Simulation of Hydrocarbon Pool Fires"

2013	International Conference on Challenges in Disaster Mitigation and Management Strategies Organized by IIT Roorkee, Uttarakhand-India, February 15-17, 2013	Sahu et al., "Compartment Fires: An Experimental Study"
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### Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
Investigator	Research project	Experimental studies on fire behavior inside the confined area	TEQIP III	2018	2019	37000	completed	Dr. Sangeeta Garg
Investigator	Research project	Catalytic Co-pyrolysis studies of biomass and plastics in producing bio-fuels and value added products	TEQIP III	2018	2020	200000	ongoing	Dr. AnjiReddy Bhavanam

### Events Organized :

Category	Type	Title	Venue	From	To	Designation
Conference	National	"Recent Trends in Chemical Sciences & Engineering"	Department of Chemical Engineering, National Institute of Technology Hamirpur (H.P.)	13/10/2017	14/10/2017	Joint Secretary
STC	National	Catalysis	Jointly organized by Department of Chemical Engineering, NIT Jalandhar and Department of Humanities and Sciences (Chemistry), Government Women Engineering College Ajmer, Rajasthan	10/08/2019	14/08/2019	Coordinator
Conference	International	International Conference on "Chemical, Bio & Environmental Engineering"	Department of Chemical Engineering, NIT Jalandhar	13/02/2020	14/02/2020	Joint Secretary

## PG Dissertation Guided :

<b>Student Name</b>	<b>Dissertation Title</b>	<b>Status</b>	<b>Year</b>	<b>Co-Supervisor</b>
ANKITA SHARMA	Fluid Flow and Heat transfer Characteristics from Rectangular cylinder in Non-Newtonian Fluids	Submitted	2020	Dr. Anurag Kumar Tiwari
Jaspreet Chawla	Numerical Studies of Fire Behaviour inside the Enclosure	Completed	2019	Dr. Sangeeta Garg