



Dr.Chitra Rajagopal,DRDO

Biodata: Dr Chitra Rajagopal completed her Ph D from Indian Institute of Technology, Delhi in the area of Heat Transfer, after obtaining her Bachelors degree in Chemical Engineering from Department of Chemical Engineering & Technology, Punjab University, Chandigarh for which she was awarded University and Arun Modi gold medals. Dr Chitra Rajagopal, Outstanding Scientist, took over as Director, CFEES w.e.f. 1st April 2014.

Her research areas are Process Safety, Environment Safety, Explosive Safety and Heat Transfer. For addressing the stakeholders needs for reduced land area, enhanced safety of explosives/munitions storage/handling and ensuring safety and serviceability of military munitions, innovative solutions for explosive store houses have been provided. Other completed projects are Design and Development of Heat Transfer Equipment and Combustors for MOD Applications; Integrated Software Package for Risk and Hazard analysis (RHA) and Disaster Management; Development of Ecofriendly Treatment Technologies for Hazardous Waste; Design and Modelling of treatment systems for contaminated effluents from DRDO Labs/Ordnance Factories; Application of Risk Assessment Techniques to Defence; Development of Photodegradable Polymers for Packaging Applications; Bio fuel Reformer for generation of Hydrogen.

Under the leadership of Dr Chitra Rajagopal various infrastructure facilities have been established at CFEES. These include facilities for Environmental Monitoring; Chemical Hazard Evaluation; Analytical Labs; Characterisation lab for reforming catalysts and polymers, Simulation and Modeling facility for Non-linear Dynamic analysis of structures subjected to blast loads; Dust Explosions; Heat transfer and Kinetic parameter estimation for catalytic steam reforming; Pilot plant facilities for Electrochemical treatment of heavy metal wastes; Reforming of bio-ethanol; Test and calibration facilities for instrumentation used for Blast parameter measurement.

She has a major role in formulation, amendment and implementation of explosive safety rules and regulations in MOD units storing, handling, processing and transporting

explosives/ammunition and its compliance monitoring through siting, safety audit, hazard classification trials and accident investigation. She has also been responsible for implementation of environment rules and regulations in MOD establishments and formulation of Safety, Health & Environment Policy and Disaster Management Plan for DRDO. She has taken a major initiative in sensitising MOD users through training programmes, lectures, dissemination through electronic and print media.

She has 55 International and 44 National publications with 1479 citations for 64 papers, 1 book chapter, 3 book reviews and 114 technical reports. She has presented papers in 35 International and 44 National conferences. Five patents are to her credit (2 granted and 3 filed). One technology has been transferred to Industry and two have been selected for transfer to civil sector. She is member of 4 international and 5 national professional bodies and expert member of various national committees. She has guided 5 PhDs. She is PhD and M Tech examiner for IITs and various other universities. She has delivered 40 invited talks at various national and international fora and organized 13 international/national conferences/workshops.

She has received several awards including DRDO Scientist of the Year Award 2010. Other awards are Group Technology Award 2007, 2009 and 2010. She has been nominated for inclusion in Marquis Who's Who in Science and Engineering and Tech Museum awards for use of technology to benefit humanity in the field of Environment over five consecutive years.