

Name	Vivek V. Ranade	
Division	Chemical Engineering & Process Development	
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Subjects	Multiphase flows, Process intensification, Reactor engineering, CFD	
Education and experience	<ul style="list-style-type: none">• B.Chem.Eng., 1984: UDCT, Mumbai• Ph.D. (Tech), 1988: UDCT, Mumbai• Worked at ETH Zurich (1988-90), TU Delft (1993-94) and Twente University (1997-98)• Worked as CEO & CTO of Tridiagonal Solutions (2008-10)• Worked as Scientist at NCL since 1990 till date• Since July 2010: Scientist H at National Chemical Laboratory; leads research on sustainable chemical industry, process intensification and multiphase flows with phase change	
Achievements	<ul style="list-style-type: none">• UAA Distinguished Alumnus Award 2011• Editorial board of Sadhana – Academy Proceedings in Engineering Sciences & Asia Pacific Journal of Chemical Engineering• Fellow of Indian Academy of Sciences, Bangalore, 2011• Selected as ‘Outstanding scientist’ by CSIR in July 2010• Co-founded a technology company ‘Tridiagonal Solutions Pvt. Ltd.’ in July 2006 (www.tridiagonal.co.in)• CHEMTECH “Outstanding Contribution” Award (Chemical Engineering), 2005• Fellow of Indian National Academy of Engineering, 2005• Shanti Swarup Bhatnagar Prize in Engineering Sciences, 2004• DST Swarnajayanti Fellowship, 1999• INAE Young engineer award, 1996; CSIR Young Scientist award, 1992	
Research Area	<ul style="list-style-type: none">• Multiphase flows, flows with phase change, CFD• Process intensification, Reactor engineering• Development of fluidic devices for variety of applications• MAGIC (modular, agile, intensified & continuous) reactors	
Recent publications	<ul style="list-style-type: none">• Publications in peer-reviewed international journals: > 125; Conferences: > 100 [citations >1200; h index 22]• Books: 3 (CFM for CRE, Academic Press, London, 2002; Rotary Kiln, VDM, 2009; Trickle Bed Reactors, Elsevier, 2011)	