

ANNEXURE I**A) List of Publications :**

1. "Determination of Material Parameters of Viscoelastic Fluids by Rotational Non-viscometric Flows", R.A. Mashelkar, D.D. Kale, J.V. Kelkar and J. Ulbrecht; *Chem. Engg. Sci.* **27**,973, (1972).
2. "Drag Reduction in Rotational Viscoelastic Boundary Layer Flows", D.D. Kale, R.A. Mashelkar and J. Ulbrecht; *Nature (Physical Science)*, **242** (No.115),29, (1973).
3. "Laminar Boundary Layer Flows around Rotating Disc in Viscoelastic Fluid" D.D. Kale, R.A. Mashelkar and J. Ulbrecht; *Rheologica Acta*, **14**, 631, (1975).
4. "High Speed Agitation of non-Newtonian Fluids: Influence of Elasticity and Inertia", D.D. Kale, R.A. Mashelkar and J. Ulbrecht, *Chem. Ingenieur Technik*, **46**, 69, (1974).
5. "Rotational Flows of non-Newtonian Fluids, part I: Turbulent Flow of Inelastic and Viscoelastic Fluids around Discs, R.A. Mashelkar, D.D. Kale and J. Ulbrecht, *Trans, Inst Chem.Engr.*, **53**, 143, (1975).
6. "Rotational Flows of non-Newtonian Fluids, Part-II. Torque Suppression with Agitators" R.A. Mashelkar ,D.D. Kale and J. Ulbrecht, *Trans Ins. Chem.Engr.*, **53**, 150, (1975).
7. "Turbulent Drag Reduction in Fiber-Polymer Systems Specificity Considerations", D.D. Kale and A.B. Metzner, *A.I.Ch.E. Journal*, **20(6)**, 1218, (1974).
8. "Turbulent Drag Reduction in Dilute Fibre Suspensions: Mechanistic Considerations", D.D. Kale and A.B. Metzner, *A.I.Ch.E. Journal*, **69**, (1976).
9. "Drag Reduction and Some Possible Applications", D.D. Kale, *Chemical Industry Developments*, **II (No.5)**,25, (1977).
10. "Heat Transfer to non-Newtonian Fluids", D.D. Kale, *Chemical Industry Developments*, **10 (No.9)**, 17 (1976).

11. "An Analysis of Heat Transfer to Turbulent Flow of Drag Reducing Fluids", D.D. Kale, *Int.J. Heat and Mass Transfer*, **20**, 1077, (1977).
12. "Effect of Drag Reducing Additives on Mass Transfer Characteristics of Gas-Liquid Contactors", J.B. Joshi and D.D. Kale, *Chem.Engg. Communications*, **3 (1)**, 115, (1979).
13. "Gas Absorption into non-Newtonian Fluids in a Rotating Disc Contactor", D.D. Ravetkar and D.D. Kale, *Chem.Egg. Sci.*, **36 (2)**, 399, (1981).
14. "Thermodynamic Transients of Steam Turbine" L.G.K. Murty and D.D. Kale, *Nuclear Engg.Design*, **66**, 177, (1981).
15. "Flow and Viscous Characteristics of Paints and Inks", D.D. Kale, *J. Colour Soc.*, **23 (1)**, 13, (1984).
16. "Flow of non-Newtonian Fluids through Porous Media", R.V. Dharmadhikari and D.D. Kale, *Chem. Engg. Sci.*, **40**, 527,(1985).
17. "Effect of Polymer Additives on Mass Transfer Characteristics of Two-Phase, Gas-Liquid Flows in a Pipeline", D.D. Kale and B.N. Yadgiri, *Chem.Engg.Sci.*, **40**, 679, (1985).
18. "Heat Transfer to Two-Phase, Gas-Liquid Flows of Drag Reducting Fluids", D.M. Rao and D.D. Kale, *Chem.Engg.Sci.*, **41**, 2434, (1986).
19. "Rheology of Pigment Dispersions" D.D. Kale, M.N. Gothi and V.Krishnan, *J. Colour Soc.* **26 (3)**, 1, (1987).
20. "Heat Transfer to Viscous Fluids in Mechanically Agitated Vessel using a Modified Anchor", D.D. Kale and P.W. Charde. *Indian Chemical Engineer*, **24(2)**, T92, 41, (1987).
21. "Drag Reduction in Two-Phase Gas-Liquid Flows" D.D. Kale, *A.I.Ch.E. Journal* **33 (2)**, 351, (1987).
22. "Studies in Process Design for The Manufacture of p-amino Diphenylamine", D.C. Anjekar and D.D. Kale, *Indian J. Technology*, **26**, 427, (1988).
23. "Effect of Cation Exchange Resin in the Preparation of phenol-phthalein". N.G. Joag and D.D. Kale, *Indian J. Technology*, **26**, 491, (1988).

24. "Effect of Rheology on Melt Spinning of Fibres", D.D. Kale and N.B. Bopardikar, *Indian J. Textile Research*, **13**, (9), 146,(1988).
25. "Studies in Process Developemnt of p-amino Diphenylamine", R.S. Sankhe, V.R. Kanetkar and D.D. Kale *J. Colour Society*, **27(2)**, 1, (1988).
26. "Rheological Behaviour of Butter-like Spreads", S.A. Momin, D.D. Kale and V.V.R. Subbramanian, *J. Oil Technologists. Association of India* **19(3)**, 58, (1987).
27. "Use of LAARAY Viscometer in Determining Rheology of Inks and Varnishes", D.D. Kale, H.L. Contractor and Z.A. Lakdawala, *Paintindia*, **38(9)**, 33, (1988).
28. "Separation of α - cellulose, Lignin and Silica from Rice Husk", D.D.Kale, P.S. Marawar and A.R.Solapurkar , *J. Col. Soc.*, **27(4)** and **28(1)**, 9,(1988) and (1989).
29. " Hydrodynamics in Packed Column: Non -Newtonian Liquids", A.M. Soman, V.G. Pangarkar J.B. Joshi and D.D. Kale, *Indian Chem. Engineer. (Transactions)* **31(4)**, 61, (1989).
30. "Controlled Release of 2,4-D(2,4 dicholorophenoxyacetic acid) from the Complex of Rice Husk Lignin and 2,4-D", Chong Su Cho , Kwang- Phyl Park , Kang -Chon Lee and D.D.Kale , *Ind. J.Tech.* **28(1)**,24, (1990).
31. "Pultrusion Technology", D.D.Kale,*Indian Chemical Engineer*,**32 (2)**, 41, (1990).
32. "Gas Barrier Properties of Multilayer Films", R.Rangaprasad, V.G.Naik and D.D.Kale, *Packaging India* , **23(3)** , Aug.-Sept.,13,(1990).
33. "Permeability of Gases through Polymeric Films", V.G.Naik, R.Rangaprasad and D.D.Kale , *Packaging India*, **24**, 34 (1991).
34. "Laminar Flow of Non-Newtonian Fluids over Static Mixers", N.F. Shah and D.D.Kale , *Chem .Engg. Sci .*, **46(8)**, 2159, (1991).

35. "Effect of Viscosity and Drag Reducing Agents on Mass Transfer in Liquid - Liquid Spray Columns", K. Rostami Jafarabad , J. B. Joshi and D. D. Kale, ***Solvent Extraction and Ion Exchange***, **8(4&5)**, 669,(1990).
36. "Pressure Drop for Laminar Flow of Viscoelastic Fluids in Static Mixers ", K. Gokulchandra and D .D. Kale, ***Chem. Engg. Sci.***, **47(8)**,2097, (1992).
37. "Two-phase Gas Liquid Flows in Static Mixers", N.F.Shah and D.D.Kale, ***A.I.Ch.E.Journal*** , **38(2)** ,308, (1992).
38. "Rheology of High Density Polyethylene-Polypropylene blends", R. Rangaprasad, V.G.Naik and D.D.Kale, ***Polymer Science, Contemporary Themes, Vol 2***, 908 Ed. S..Sivram, Tata-Mc-Graw Hill, (1991).
39. "Rheology of Blends of Low Density Polyethylene and Modified Strach", R.V.Limaye, V.G. Naik and D.D. Kale, ***Polymer Science Contemporary Themes, Vol 2***, 920, Ed. S. Sivaram, Tata McGraw Hill (1991).
40. "Rheology and Permeability Characteristics of Blends of Starch, (and Starch Acetate) with the LDPE", N.J. Kshirsagar, R. Rangaprasad, V.G. Naik and D.D. Kale, ***J. Polymer Materials, (International Edition)***, **9**, 17 (1992).
41. "Mixing of non-Newtonian Fluids by Planetary Helical Impellers", P. Pravina and D.D. Kale, ***Indian Chemical Engineer*** , **34** , 15, (1992).
42. "Power Consumption of Helical Ribbon Impellers in Rheologically Complex Fluids", P. Pravina and D.D. Kale, ***Indian Chemical Engineer***, **35**,82, (1993).
43. "Rheological Behaviour of Phenolic Resins", S.K. Shringarpure and D.D. Kale, ***J. Poly. Mat. (International Editon)***, **12 (1)**, 15, (1995).
44. "Pressure Drop for Two-Phase, Air non-Newtonian Liquid Flow in Static Mixers", K. Gokulchandra and D.D. Kale, ***The Chem.Engg. J.*** **59**, 277, (1995).
45. "Studies in Blends of Polypropylene and Polyethylene Terephthalate", S.S. Morye and D.D. Kale ***J. Poly.Mat (International Edition)***, **13**, 217, (1996).
46. "Effect of Processing Parameters on Refining of CNSL", P.A. Mahanwar and D D Kale, ***Ind. J. Chem.Tech.***, **3**, 191 , (1996).

47. "Studies in *Chenopodium quinoa* and *Amaranthus paniculatas* starch as Biodegradable Fillers in LDPE Films", N.T. Thoufeek Ahmed, R.S. Singhal, D.D. Kale and P.R. Kulkarni, *Carbohydrate Polymers*, **31**, 157, (1996).
48. "Effect of Cashew Nut Shell Liquid (CNSL) on the Properties of Phenolic Resins", P.A. Mahanwar and D.D. Kale, *J. Appl. Poly. Sci.*, **61**, 2107, (1996).
49. "Studies on the Blends of High Density Polyethylene and Nylon 6 ", L.T. Srinivas and D.D. Kale, *J. Poly Mat. (International Edition)* **14**, 7, (1997).
50. "Processing of High Density Polyethylene and Poly(ethylene terephthalate) Blends", S. Basu and D.D. Kale, *Macromol. Symp.*, **118**, 329, (1997).
51. "Rheological Behaviour of Lignin Filled Polyolefins", A.Y. Kharade and D.D. Kale, *J. Polym. Materials(International Edition)*, **14 (3)**, 257, (1997).
52. "Composites of Waste Ground Rubber Particles with Poly (vinyl chloride)", M. Tipanna and D.D. Kale, *Rubber Chemistry and Technology*, **70(5)**, 815, (1997).
53. "Effect of Lignin on Phenolic Resins", A. Y. Kharade and D.D. Kale, *European Polymer Journal*, **34(2)**, 201, (1998).
54. "Blends of Nylon 6-PET Waste", D.D.Kale, A.Y. Kharade, Jung Gyu Kim and Hyun Jung, *Korean Poly. Journal*, **6** (11), 1057, (1998).
55. "Lignin Filled Polyolefins", A.Y.Kharade and D.D. Kale, *J. Apply. Poly. Sci.* **72**, 1321, (1999).
56. "Blends of Polyethylene Terephthalate", V.V. Shertukade and D.D. Kale, *J. of Polymer Materials (International Edition)* **16**, 55, (1999).
57. "Effect of Processing Aid on Processing of Polypropylene", R. D. Upadhyay, S. Paul and D. D. Kale, *J of Polymer Materials (International Edition)* **47**, 782, (1999).
58. "Synthetic Paper from Plastics", Balasubramaniam and D. D. Kale, *TAPPI, PEER REVIEWED, 1-9 October 2000*, <http://www.tappi.org/public/library.asp>.
59. "Synthetic Paper from Plastics", Balasubramaniam and D. D. Kale, *Paper Film Converter, 70-71 October 2000*.

60. "Effect of Compatibilizers and Blend Composition on PP-cp/ Nylon 6 Blends", S. K. Pal and D. D. Kale, *J of Polymer Materials (International Edition)* **17**, 385 (2000).
61. "Effect of Processing Conditions and Properties of PP/ Nylon 6 Blends", S. K. Pal and D. D. Kale, *J of Polymer Research*, **7(2)**, 107 (2000).
62. "Impact Modification of Polypropylene Copolymer (PP-cp) with a Polyolefinic Elastomer (POE)", S. Paul and D. D. Kale, *J of Applied Polymer Science*, **76**, 1480 (2000).
63. "Effect of Synthetic Sodium Aluminum Silicate on the Properties of Nylon 6", R.D. Upadhyay and D. D. Kale, *Polymer International*, **50**, 1209 (2001).
64. "Blends of Acrylonitrile-Butadiene-Styrene/ Waste Poly(ethylene Terephthalate) Compoatibilized by Styrene-Maleic Anhydride", S. Paul and D.D. Kale, *J. Applied Polymer Science*, **80**, 2593 (2001).
65. "Properties of Polypropylene filled with Synthetic Sodium Aluminum Silicate", R.D. Upadhyay and D. D. Kale, *J. Applied Polymer Science*, **81**, 2297 (2001).
66. "Effect of Synthetic Sodium Aluminum Silicate on the properties of Polyether Sulfone", R.D. Upadhyay and D.D. Kale, *J. Polymeric Materials*, **18**, 333 (2001).
67. "Properties of Films made from Ternary Blends of Metallocene and Conventional Polyolefins", Arnab Majumdar and D.D. Kale, *J. Applied Polymer Science*, **81**, 53 (2001).
68. "Rheological and Optical Properties of Polypropylene filled with Synthetic Sodium Aluminum Silicate and Calcium Carbonate", R.D. Upadhyay and D.D. Kale, *J. Polymer Research*, **8 (3)**, 175 (2001).
69. "Effect of Succinylation on the Rheological Profile of Starch Pastes", Praful Bhandari, R.S. Singhal and D.D. Kale, *Carbohydrate Polymers*, **47**, 365 (2002).
70. "Rheological Study of Polypropylene Copolymer/ Polyolefinic Elastomer Blends", Subhasish Paul and D.D. Kale, *J. Applied Polymer Science*, **84**, 665 (2002).

71. "Impact Modification of Waste Polyethylene Terephthalate (PET) by Polyolefinic Elastomer (POE)", K. P. Chaudhuri and D.D. Kale, *Polymer International*, **52**, 291 (2002).
72. "Impact Modification of Waste Polyethylene Terephthalate (PET) by Polyolefinic Elastomer (POE)", K. P. Chaudhuri and D.D. Kale, *J. Polymeric Materials*, **19**, 169 (2002).
73. "Compatibilization of PTT/PS blends through SEBS-g-MA compatibilizer" N. A. Mehta, J. G. Kim, B. W. Jo and D.D. Kale, *International Journal of Plastics Technology*, **5**, 65 (2002).
74. "Properties of High Density Polyethylene filled with Waste Crosslinked foam" S. M. Tamboli, S. T. Mhaske and D. D. Kale, *J. Applied Polymer Science*, **91**, 110 (2003).
75. Blends of Plasticized and waste flexible PVC with Waste Nitrile Rubber Powder, S. S. Ghaisas, J. G. Kim, B. W. Jo and D. D. Kale, *J. Applied Polymer Science*, **91**, 1552 (2004).
76. Properties of Blends of Waste Nitrile Rubber and plasticized PVC, S. S. Ghaisas, J. G. Kim, W. H. Hong and D. D. Kale, *J. Polymer Materials*, **20**, 23, (2003).
77. "Crosslinked Polyethylene", S. M. Tamboli, S. T. Mhaske and D. D. Kale, *Indian Journal of Chemical Technology*, **11**, 853 (2004).
78. "Blends of poly (ethylene terephthalate) and poly (butylenes terephthalate)", G. Aravinthan and D. D. Kale, *J. Applied Polymer Science*, **75** (2005).
79. "Properties of polypropylene filled with waste crosslinked polyethylene foam powder" Arpan Chakraborty and D.D.Kale. *J. of Polymer Materials* (In Press).
80. "Biodegradable blends of poly(ether caprolactum) and LDPE with compatibalizer, EAA" M.Nath, D.D.Kale and M.A.Shenoy, *J.Polymer Materials*, Dec. 2007
81. "Viscous Behavior of Blends of poly(propylene-co-ethylene) and Polyolefinic Elastomer," , Subhasish Paul and D. D. Kale, *Journal of Polymeric Materials* **22**, 181 (2005).
82. "Studies in Blends of Polycarbonate (PC) with Poly Ehylene Terephthalate (PET), Poly Trimethylene Terephthalate (PTT) and Poly Butylene Terephthalate

(PBT)” Sanket Nabar, D. D. Kale, Jung- Gyukim & Wan Hae Hong, *Journal of Polymeric Materials*, **23**, 101 – 113, (2006)

83. Rheology and transesterification between polycarbonate and polyesters” Sanket Nabar, D. D. Kale, *Journal of Applied Polymer Science*, **104**, (3) , 2039 – 2047 (2007)

Books Published

- 1) *Unit Operations I: Fluid Flow and Heat Transfer*, D.D. Kale, Vidyarthi Griha Prakashan, Pune (1985).
- 2) *Unit Operations II: Mass Transfer Operations*, S.G. Dixit, D.D. Kale and S.S. Mujumdar, Vidyarthi Griha Prakashan, Pune (1985).

Patents :

1. “A method of preparing packaging films made of polymeric materials having improved tensile strength and elongation at break and film and sheet made thereby”, V.G. Kumar, Anil Gandhi, D. D. Kale, Indian Patent No. 181731 dated 21/07/ 94.

ANNEXURE II

Papers Presented/ Lectures Delivered:

1. “Rheology of LDPE composites with starch and its derivatives” D.D. Kale, N.J. Kshirsagar and V.G. Naik, A paper accepted for presentation at, *Rheology and polymer processing, Regional meeting of Society of Rheology, Seoul*, (1991)
2. “Permeability of gases through blown films of high density polyethylene”, D.D. Kale, V.G. Naik and R. Rangaprasad, paper accepted for presentation at, *Polymer Processing Society Regional meeting of Asia/ Australia, Shanghai*, (1991)
3. “Effect of processing temperature on the barrier properties of blown films from HDPE-PP films”. R. Rangaprasad and D.D. Kale, A paper presented at *International Conferemce of Polymer Processing Society, PPS8, New Delhi*,(1992)

4. "Role of rheology in polymer processing", R. Rangaprasad and D.D. Kale, A paper presented at the seminar, *Recent Advances in Chemical Engg. Sciece, University of Calcutta*, (1992)
5. "Waste Management in Chemical Industry", Lecture delivered at *Industrial and Nuclear Waste Management organised by Indian Nuclear Society, Tarapur*, (1993)
6. "Application of rheology in the area of lubricants", lecture delivered at *R&D perspectives in additives in lubricant technology" organised by Lubrizol India Ltd., Vashi*, (1993)
7. "Introduction to paint technology", lecture delivered at *Refresher course in paint technology organized by Indian Small Scale Paint Association (ISSPA) at UDCT*, (1993)
8. "Recycling of polymers-revisited", paper presented at *SPE National seminar on polymer wastes, Mumbai*, (1993)
9. "Role of Universities in industrial research", lecture delivered at *National Symposium on progress through synergy organized by Colour Society, Mumbai*, (1994)
10. "Studies in LLDPE-PP blends" R. Sequeira and D.D. Kale, Invited lecture at *the Polymers '94 International Conference, Polymer Society of India, Vadodara*, (1994)
11. "Performance of static mixers", Lecture delivered at *Kumho Tire Industries Research Laboratory, South Korea*, (1994)
12. "Rheological properties of phenoic resins", Lecture delivered at *Kumho Tire Industries Research Laboratory, South Korea*, (1994)
13. "Permeability of gases through films of LLDPE-PP blends", Lecture delivered at *Korea Advanced Institute of Science and Technology, Seoul, South Korea*, (1994)
14. "LLDPE-PP blends: properties and processing", Lecture delivered at *Korea University, Seoul, South Korea*, (1994).

15. "Recycling of HDPE containing ground rubber tyre", A.B. Sawant and D.D. Kale, A Paper presented at *National Conference Organized by CIPET, Goa*, (1995).
16. "Effect of filler on PVC processing", A.B. Sawant and D.D. Kale, A paper presented at *International Conference organized by Indian Institute of Metals and Indian Plastics Institute, Dec.* (1994)
17. "Polycarbonate- Polystyrene Blends", D.A. Walhekar, D.D. Kale and S. Satish (IPCL), Accepted for presentation at *International Conference organized by Polymer Processing Society PPS 11, Seoul*, (1995)
18. "Studies in polyethylene-polycarbonate blends", R.M. Gaonkar, D.D. Kale, and S. Satish (IPCL), Accepted for presentation at *International Conference organized by Polymer Processing Society PPS 11, Seoul*, (1995)
19. "Fillers for PVC", D.D. Kale and A.B. Sawant, A Paper presented at *the seminar organized by Institute of Engineers, Mumbai*, (1995)
20. "Processing of HDPE-PET Blends", S. Basu and D.D. Kale, Invited paper at *IUPAC MACROMOLECULE 96 SEOUL*, (1996).
21. "Rheology and processing of blends of HDPE-PET", S. Basu and D.D. Kale, A paper presented at *the National Conference Physico- Chemical Aspects of Fibre and Polymers, University of Mumbai Mumbai*, (1995).
22. "Processing of blends of LDPE and PVC with waste rubber particles", M. Tipanna and D.D. Kale Lecture delivered at *Chosun University Kwangju , South Korea*, (1996).
23. "Utilization of ground rubber waste", M. Tipanna and D.D. Kale, Lecture delivered at *Sardar Patel University, Vallabh Vidya Nagar Gujrath*, (1996).
24. "Processing of blends of nylon 6-PET", D.D. Kale, A.Y. Kharade, Jung-Gyu Kim and H.Hyun Jung, paper presented at *The Polymer Processing Society Asia/ Australia regional meeting, Singapore*, (1996).
25. "Lignin filled composites-A case study of waste utilization", A.Y. Kharade and D.D. Kale A Paper presented at *The National Seminar on recycling and waste management, Central Institute of Plastics Engineering and Technology, Chennai*, (1997).

26. "Blends of natural and synthetic polymers", D.D. Kale, A lecture delivered at the *Unido -ICS, International workshops on "Environmentally degradable polymers"*. National Chemical Laboratory, Pune, (1997).
27. "Blends of nylon 6-waste PET", D.D. Kale, A.Y. Kharade, Jung-Gyu Kim and H.Hyun Jung, Paper presented at symposium *Semi rigid rod polymeric materials, orgnaized by Polymer Society of Korea and Chosun University, Kwangju, South Korea*, (1997).
28. "Polymer Additives", D.D. Kale, A paper presented at *India Fire Chemicals Conference 1998,organised by Reed Publishers and sponsored by ICMA*, Dec. 14,15, (1998).
29. "Changing Scenario of Polymers and its Impact on Processing", D.D. Kale, A lecture delivered at the national seminar, "*Investment apportunities in petrochemicals and polymer processing*" seminar organised by *UDCT Alumni association, Ahmedabad Chapter, IndextB, CIII (Gujrat State Office)* Ahmedabad, (1998).
30. "HDPE- Waste PET blends", D.D. Kale and V.V. Shertukade, A paper presented at "*The Macro 98*", *International symposium organised by IUPAC and Polymer Society of India, Chennai* (1998).
31. Visited Chosun University, South Korea as a Visiting Faculty and was engaged in teaching Transport Phenomena and Polymer Processing. Also participated in Joint Research Projects.
32. Seminar was delivered at *Chosun University and Center of Rheological Society, South Korea* on the topic "Rheological Behaviour of Concentrated PMMA solutions".
33. Visited Kwangju Institute of Science and Technology, *Kwangju, South Korea*.
34. Invited speaker at *1st International Symposium on Macro and Supramolecular Architectures and Materials: Biological and Synthetic Systems at Kwangju Institute of Science and Technology, South Korea, April 11-14, 2001*.

35. Presented a *plenary lecture on Recent Trends in Frontiers of Polymer Science at the National Symposium on Polymers, Sardar Patel University, Vallabh Vidhyanagar, Gujrat. March 11-12, 2001.*
36. Attended and Chaired a session and presented an invited talk on “ Blends of Waste Polyethylene Terephthalate (PET) and High Impact Polystyrene (HIPS) and Polyethylene”, K.P. Chaudhuri and D.D. Kale, at *1st International Symposium on Macro- and Supramolecular Architectures and Materials: Biological and Synthetic Systems, Kwangju Institute of Science and Technology, Kwangju, South Korea, April 11-14, 2001.*
37. Attended and Chaired a session and presented an invited talk on “Role of Rheological Testing in Product Development” at *International Seminar on Plastics Testing-2001, Central Institute of Plastics Engineering and Technology, Chennai, December 13-15, 2001.*
38. “Transesterification and Compatibilization in the Blends of Bisphenol A Polycarbonate and Poly (trimethylene terephthalate)”, by Jung Gyu Kim, Sang Kwon Na, Byung Wook Jo and D. D. Kale at *Polychar-10, World Forum on Polymer Applications and Theory, University of North Texas (UNT), Denton, U.S.A., January 2002.*
39. “Compatibilized Blends of Polystyrene and Poly (trimethylene terephthalate)”, by Wan Hao Hong, Jung Gyu Kim, Byung Wook Jo and D. D. Kale at *Polychar-10, World Forum on Polymer Applications and Theory, University of North Texas (UNT), Denton, U.S.A., January 2002.*
40. National Symposium on Polymer Science at Department of Chemistry, S.P. University, Vallabh Vidya Nagar, Gujrat on Dec 3 & 4, 2002.
Topic: “*Use of Polyolefinic Elastomer (POE) in toughening of Nylon-6 and Waste PET*”.
41. I.M. Patel Visiting Fellow Programme at the Department of Chemistry, S.P. University, Vallabh Vidya Nagar, Gujrat on March 5, 2003. Topic: “*Polymer Blends*”
42. Indo German Workshop on Polymer Science & Technology, Rajcot on Oct 4, 2002

Topic: *“Effect of Crosslinked Polyethylene Waste on the Properties of HDPE and LLDPE.”*

43. Society of Polymer Science, Pune Chapter, Lecture delivered in honor of Dr. Sivaram, director NCL. Topic: *“Effect of crosslinked polyethylene waste on the properties of HDPE and LLDPE.”*
44. Rajkot University, Department of Chemistry Programme under UGC, College of Academic Staff. Presented two lectures as lead person
I) Rheology of Polymeric Materials II) Polymer Processing
45. Macro 2002, delivered a lecture on *“study of compatibilized blends of Nylon-6 and Polyolefinic Elastomer (POE)”*
46. Macro 2002, Delivered a lecture on *“Blends of Polystyrene (PS) and Poly(trimethylene terephthalate) (PTT)”*
47. Chaired Two sessions at Macro 2002.
48. Lectures at Central Salt Marine Chemical Research Institute (CSMCRI) Bhavnagar
I) Rheology and Polymer Processing II) Effect of Crosslinked Waste Polyethylene on Properties of Virgin Polyethylene.
49. Lectures at Vidya Prasarak Mandal, Thane, Mumbai *“Intellectual Property Rights”*. October 2007
50. *“Some Thought on Education in Polymer Science in India”* at Reliance Industries Ltd. PARC, May 11, 2005, National Technology Day.
51. *“ Biofuels some perspectives”* D D Kale, Invited talk at the ‘Bioenergy Korea Conference 2008 – International Symposium ‘ April 8 – 9 , 2008, Kwangju, South Korea.