LIST OF PAPERS AND REPORTS


(2) "Studies on behaviour of Ion Exchange resins in nonaqueous media" - All India Symposium on Ion - Exchange resins - University College of Agriculture, Culcutta, 6 - 8 Feb., 1980 (Author).


(4) Advances in development of Polyurethane products from castor oil - 36th Annual Convention of Oil Technologists Association of India, 14-2-81, R.R.L., Hyderabad (Author).

(7) "ISROPOLS for surface coating applications" - Seminar on protective coating and linings - - National Productivity Council, Madras, Sept., 1983 (Author).

(9) "Catalyst separation from polymer solutions" - National Seminar on separation and transport process - Nov.3-4,1987, IIChe, Trivandrum (Author).


(11) "Low cost foam mandrel, based on indigenous polyurethanes" - Inter Centre Hindi Seminar. Aug. 1988, SHAR (Co-author).


(15) Thermal insulation testing and analysis on transportation container model of IRS - 1A Space Craft - Indian Chemical Engg. Congress, Dec. 1989, Trivandrum (Co-author).

(21) Studies on development of Auto catalytic polyols based on castor oil for rigid polyurethane and polyisocyanurate foam

(22) Studies on polyester based fire retardant PU rigid foam – Indian Chemical Engg Congress (Chemcon) 1990, BHU, Varanasi.

(23) “PUF as a substitute for wooden blocks in artificial limbs- Development & use of Endoskeletal Limbs made from rigid PU foams based on ISRO polyols as wood substitutes” - jointly presented with PMRD, Medical College, Trivandrum at the XX Annual Conference of Indian Association of Physical Medicine & Rehabilitation, Annamalai University, 1-3 February, 1992 was awarded the best paper.

(24) “Development and applications of polyurethanes based on HTPB” - Colloquium on HTPB - 92- VSSC, Trivandrum.

(28) Studies on PU/PIR foams developed from indigenous polyols for cryogenic applications - Chemcon 93, 46th Annual Session of IICHE, 15-18 Dec 93, UDCT/IIT, Bombay.


(34) Development and application of Reaction moulding polyurethane systems from Hydroxy terminated polybutadiene resins - Chemcon 95, Dec 1995, IGCAR, Kalppakkam.


(36) “Development and use of Polyurethane Micro cellular foams and elastomers for space and non space applications” Author of paper presented at the National Seminar on Elastomeric materials-
Manufacture and characterization- 5-6 February 1998, Anna University, MIT campus, Chennai.


(38) “Vibration damping by Polyurethane foams”- 15th Kerala Science Congress, Jan, 2003, Trivandrum


(41) “PU Foot Prostheses based on ISRO Technology- Development and Rehabilitation”, International Seminar and World Congress of International Society of Prosthetics & Orthotics, I-6, August 2004, Hong Kong


**Patents assigned to ISRO**

1) “A process for polyhydroxy ester resins”, Indian patent No.149900 dt. 11-7-80 (Inventor).


3) “Miniature and Pedestal Sliprings – Process for potting resins embedment and encapsulation for insulation” - Co-Inventor - Indian patent No.544/MAS-99