

Resume : DR. Sarita Garg

Name : Dr. Sarita Garg
Date of Birth : 14th January 1961
Address : House No.20, Sector-7A, Faridabad-121006
Telephone : 9654936867
Email : gargsaritadr@gmail.com

Educational Qualifications

Sept 1989 Some Studies on the Modification of Starch for sizing
Department of Textile Technology,
INDIAN INSTITUTE OF TECHNOLOGY, DELHI

Jul. 1980 to **M.Sc.;** Organic Chemistry
May 1982 KURUKSHETRA UNIVERSITY, Kurukshetra, India

Jul. 1976 to **B.Sc.;** (Chemistry & Botany, Zoology)
May 1980 M.D. University, Rohtak, India

WORK EXPERIENCE

Oct. 1991 to **Indian Oil Corporation, Research & Development Centre,**
Faridabad

Jan 2021 Superannuated as Chief General Manager (Lubricant Technology)
Responsible for Development of Automotive, Industrial, metal
Working and Synthetic & Specialty Lubricants

- Initially, joined Synthetic Lubricants group of R&D Centre, since inception of this group and was responsible for the development and performance validation of full range of Synthetic and specialty Lubricants of Servo Products. Major products include Servosyngear series, Servosyngear RR for Indian Railways, Energy efficient compressor oils Servo Synco E series, Turbine Governor fluid for power plants, heat Transfer Fluids, Fire resistant Hydraulic Fluids for high temperature applications and Aviation Lubricants.
- Introduced a new range of Food grade Lubricants based on then prevailing International trends, making IndianOil the first Public Sector company registered with international approving authority NSF, USA (National Sanitation Foundation) for special grade lubricants for Food Processing Industry.

- Assigned responsibility of Automotive Oils Division in 2012 and since then worked closely with National & International OEMs such as Maruti Suzuki India Ltd, Mahindra & Mahindra, TATA Motors, VECV, Ashok Leyland, Nissan India & Japan, Hyundai India & Korea, Suzuki Japan etc. for fulfilling their various automotive lubricants requirements both for factory fill and service fill.

Feb. 1982 to
Jun. 1989

INDIAN INSTITUTE OF TECHNOLOGY, Delhi, India

Senior Research Assistant, Textile Technology Department.

The major responsibilities included development and evaluation of Sizing agents for Synthetic and Blended Polyester/ Cotton & Polyester/ Viscose yarn for Low humidity weaving, a DST projects

Papers & patents : Published /presented > 50 Research papers in International Conferences & journals of International repute including SAE International, USA.

- Contributed in 11 National & International Patents

Papers Presented/Published : PhD Thesis

1. **"Some Studies on Modification of Starch for Low Humidity Applications"**
P.K.Hari and S.Bhalla, Starch/Starke, 38 (1986) Nr.9, S 301-305
2. **"Moisture Accessibility of Hydrophilic Sites in Starch and Modified Starch"**
P.K.Hari, A.K.Agarwala and S.Garg, Starch/Starke, 40 (1988) Nr.6, S 221-223
3. **"Gelatinization of Starch and Modified Starch"** P.K.Hari ,S.Garg and S.K.Garg,
Starch/Starke, 41 (1989) Nr.3, S 88-91
4. **"Evaluation of properties of Starch and Modified Starch for Sizing and Desizing"**
P.K.Hari and Sarita Garg, Starch/Starke, 41 (1989) Nr.3, S 101-105
5. **"Size Recipes for Low Humidity Weaving"** paper Presented in 7th International Symposium on Sizing, West Germany, Sept 1989
6. **"Size Recipes for Low Humidity Weaving of Cotton Yarns"** paper Presented in 27th Joint Technological Conference, IIT Delhi

Publications/ Presentations after joining IOC :

7. **Sarita Garg**, V.K.Chhatwal & S.P.Srivastava, " Synthetic Lubricants Scenario & Growth in Asia Pacific Region" , Ist International Symposium on Fuels & Lubricants, Dec 8-10, 1997, N.Delhi, India
8. S.K.Srivastava, A.V.Aggarwal, V.K.Chhatwal, **Sarita Garg**, V.P.Deshmukh,

" Development of Antistatic Spin Finish Oils for synthetic Fiber processing " ,

39th Joint Technological Conference, March 21-22, 1998, IIT Delhi, India

9. **Sarita Garg**, Deepak Saxena, R.T.Mookken, A.K.Misra & S.P.Srivastava, " Development of an Indigenous Corrosion Preventive cum Preservative oil for Aircraft Engine " , National Conference on Quality Engineering in Aerospace Technologies QUEST 99, August 20-21, 1999, Bangalore, India
10. S.B.Kumhar, **Sarita Garg**, R.T.Mookken, A.K.Misra, S.P.Srivastava & A.K.Bhatnagar, " Development of Synthetic Industrial Gear oil for High Temperature Applications" 2nd Lubricating Grease Conference, January 28-29, 2000, Goa India
11. **Sarita Garg**, R.T.Mookken, M.P.Singh, N.Ali, A.K.Misra, S.P.Srivastava & A.K.Bhatnagar, " Environmental Friendly Lubricants : Indian Efforts" 2nd, International Symposium on Fuels & Lubricants, March 10-11, 2000, N.Delhi, India
12. S.B.Kumhar, **Sarita Garg**, R.T.Mookken, A.K.Misra, S.P.Srivastava & A.K.Bhatnagar, "Synthetic Industrial Lubricants : An Essentiality of Future" Petrotech 2001, January 9-12 2001, Delhi, India
13. S.B.Kumhar, **Sarita Garg**, R.T.Mookken, A.K.Misra, S.P.Srivastava & A.K.Bhatnagar, "Significance of Gear System Metal Compatibility : A Case Study with a Novel Synthetic Gear Oil" 3rd National Lubricating Grease Conference , Jodhpur , Feb 2001
14. **Sarita Garg**, A.K.Jaiswal, R.T.Mookken, A.K.Misra, N.R.Raje & A.K.Bhatnagar, "Proliferations in quality of Industrial Gear Oils : Significance Vs Cost Effectiveness" 4th National Lubricating Grease Conference , Jan 16-18, 2002 , Bangalore
15. **Sarita Garg**, S.B.Kumhar, R.T.Mookken, V.K.Chhatwal, A.K.Misra, N.R.Raje, A.K.Bhatnagar, " Superiority of Synthetic Heat Transfer Fluids, A Case Study" , 3rd, International Symposium on Fuels & Lubricants, Oct 7-9, 2002, N. Delhi, India
16. R.T.Mookken, A.K.Jaiswal, **Sarita Garg**, K.P.Naithani, A.K.Mehta, N.R.Raje & A.K.Bhatnagar, " Importance of Base oils in Industrial Lubricants : Shift from Conventional Base Oils to Synthetic," Petrotech 2003, Jan 9-12, 2003 Delhi.
17. V.P.Deshmukh, R.T.Mookken, **Sarita Garg**, Piyush Dubey, Mukesh Mittal & N.R.Raje, " Field Evaluation of Aluminium Trimming Oil," Petrotech 2003, Jan 9-12, 2003 Delhi.
18. **Sarita Garg**, R.T.Mookken, K.P.Naithani, A.K.Mehta & N.R.Raje, " Use of Non-Conventional base stocks-A trend towards Resolving the Severities in the Lubrication of Modern Machines," 5th National Lubricating Grease Conference , Jan 16-18, 2003 , Agra

19. **Sarita Garg**, K.P.Naithani “ Application of Castor oil and its Derivatives in Lubricant industry,” Presented in seminar of Solvent Extractor’s Association of India, 23rd May, 2003, Ahmedabad
20. R.T. Mookken, **Sarita Garg**, K.P.Naithani “ High performance lubricants for textile industry,” Presented in NLGI 2005, Kochin
21. **Sarita Garg**, S.B.Kumhar, R.T.Mookken, T.L.Nanda, “ High performance Synthetic gear oil for pinion & Bull gears” , 4th International Symposium on Fuels & Lubricants, Oct 27-29, 2004, N. Delhi, India
22. **Sarita Garg**, Kavita Rai, R.T.Mookken, , “ Synthetic Lubricant for Hydrocarbon gas compressors” , Petrotech 2005, N. Delhi, India
23. S.B.Kumhar, Kavita Rai, **Sarita Garg**, R.T.Mookken, K.P.Naithani, R.K.Malhotra & R.P.Verma“ Cost effective solution to Flare gas recovery : A case study with compressor lubricants” , ISFL 2006, N. Delhi, India
24. G.S.Kapur, **A.S.Sarpal**, **Sarita Garg**, & R.T.Mookken, , “ A protocol for Unambiguous Identification of components in Synthetic Ester based lubricants using Modern NMR Experiments” , ISFL 2006, N. Delhi, India
25. A.N.Jha, T.L.Nanda, **Sarita Garg**, “ Evolution of Eco Friendly refrigeration oil compatible with R 134a” , ISFL 2006, N. Delhi, India
26. S.B.Kumhar, Kavita Rai, **Sarita Garg**, R.T.Mookken, K.P.Naithani & R.K.Malhotra, “High performance synthetic Fire Resistant Hydraulic Fluid- An ideal choice for Fire Hazardous Environments, Accepted for ISFL 2008.
27. Kavita Rai, S.B.Kumhar, , **Sarita Garg**, R.T.Mookken, K.P.Naithani & R.K.Malhotra, “ Oxidative and Thermally stable chain lubricant” Petrotech 2009, N. Delhi, India
28. **Sarita Garg**, S.B.Kumhar, R.T.Mookken, K.P.Naithani & R.K.Malhotra, “ High performance synthetic base stocks-Cost effective Lubrication Solutions” ISFL 2010, N. Delhi, India
29. Kavita Rai, S.B.Kumhar, Sarita Garg, E. Sayanna , R.T.Mookken and R K Malhotra “Environment Friendly Synthetic Fire Resistant Hydraulic Fluid (FRHF): Suitability for Fire Prone Hydraulic Systems in Steel Plants, ISFL 2012, N.Delhi, India
30. Import substitution of Kobelco Screw Compressor oil in Indianoil Petronas Ltd., Haldia – a case study, ISFL 2012, N.Delhi, India
Monojit Chatterjee,Sr. Manager(Instl. Lube Sales), IOC(M) Haldia.

Tapas Gupta, DGM(Ops), IndianOil Petronas Ltd., Haldia

Dr. SARITA GARG, Sr. Research Manager & **Dr. KAVITA RAI**, Dy. Manager (Research), **Dr.E.SAYANNA**, DGM(Gr&IL), Indian Oil Corpn. Ltd (R&D) Centre, Faridabad

- 31. Performance of Low Viscosity multi-grade Engine oils in 4-Stroke Engine Powered Motor Cycle**
Mrinmoy Kalita, V.K.Bhatla, Bhuvanesh Tyagi, M.Sithananthan, M. Subramanian, Sarita Garg, SSV Ramakumar, A.K.Sehgal, R.Suresh, " ISFL 2016, New Delhi
- 32. Development of an Universal Tractor Transmission Oil (UTTO) with superior anti-chatter and long drain capabilities**
Sarita Seth, R. Joshi, R. Mahapatra, Sarita Garg, S.S.V. Ramakumar, R. Suresh, ISFL 2016, New Delhi
- 33. Low Viscosity Passenger Car Diesel Engine Oil: Balancing Fuel Efficiency and Durability Aspects**
Snigdha Praharaj, Sandeep Kumar, A. K. Harinarain, Sarita Garg, Reji Mathai, Deepak Saxena, S.S.V. Ramakumar and R Suresh, Petrotech 2016, New Delhi
- 34. Performance assessment of a new generation Gas Engine Lubricant-Novel Developmental Screening Methodology**
Ramakumar SSV, Yogesh Kumar, Virender Kumar Bathla, Sarita Garg, S.K.Mazumdar, Indian Oil Corporation
Virginia Carrick, The Lubrizol Corporation, T.L.Sethuram, Lubrizol India Pvt.Limited
CIMAC Congress, Helsinki, June 6-10, 2016
- 35. Performance of Low Viscosity multi-grade Engine oil in 4-Stroke Engine Powered Motor Cycle**
Mrinmoy Kalita, M. Muralidharan, M. Sithananthan, Yogesh Kumar Sharma, Bhuvnesh Tyagi, Sarita Garg, M. Subramanian, A. K. Sehgal, S S V Ramakumar, R Suresh, ISFL 2016, New Delhi
- 36. New Generation fuel efficient engine oils with superior viscometrics**
Sarita Seth, Swami Maloth, Prashant Kumar, Bhuvanesh Tyagi, Lokesh Kumar, R.Mahapatra, Sarita Garg, Deepak Saxena, R.Suresh, SSV Ramakumar, SAE International, SAE Technical paper 2017-01-2349
- 37. Performance validation of Synthetic Heat Transfer Fluid in hot oil system of Petrochemical industry**
Kavita Rai, S.B.Kumhar, J.N.Pandey, Sarita Garg, Deepak Saxena, SSV Ramakumar
" ISFL 2018
- 38. Studies on Friction and Wear properties of Low Viscosity Passenger Car Diesel Engine oil**

Snigdhamayee Praharaj, Sandeep Kumar, Neeraj Mittal, Sarita Seth, A. K. Harinarain, Sarita Garg, Deepak Saxena and SSV Ramakumar, ISFL 2018, New Delhi

39. Efficient Driveline Lubricants

Sarita Seth, Lakshmi Katta, Ratnadeep Joshi, R. Mahapatra, A. K. Harinarain, Sarita Garg, Deepak Saxena and SSV Ramakumar, ISFL 2018, New Delhi

40. Future fuel economy and Emission Compliant Lubricants for Indian Passenger Car market

Sarita Seth, Swami Maloth, Prashant Kumar, Mukesh Dubey, A. S. Ramadhas, Sarita Garg, Reji Mathai, Deepak Saxena, SSV Ramakumar, 46th Leeds-Lyon Symposium on Tribology, Sept 2-4, 2019, Lyon, France

41. Automotive Transmission Efficiencies V/s NVH characteristics- An experimental study

R. Choudhary, Prashant Kumar, Sarita Seth, R. Mahapatra, Ajay K. Harinarain, Sarita Garg, Deepak Saxena, SSV Ramakumar, FISITA World Automotive Congress India 2018, Paper No. F2018-FLC-015

42. Developing Energy Efficient Manual Transmission Fluids (MTFs)

Sarita Seth, Lakshmi Katta, Ratnadeep Joshi, Mukesh Dubey, R. Mahapatra, A. K. Harinarain, Sarita Garg, Deepak Saxena and SSV Ramakumar

21st Lubricating Grease Conference, NLGI 2019, Feb 7-9, 2019, Guwahati Assam, India

43. Study on Fuel Efficiency and Durability Aspect of a Low Viscosity Heavy Duty Diesel Engine Oil (SAE 2020-01-2164)

Snigdhamayee Praharaj, Sandeep Kumar, Sarita Seth, M Subramanian, Sarita Garg, Deepak Saxena, SSV Ramakumar, Indian Oil Corporation Ltd.

SAE International, SAE Technical paper 2020-01-2164

44. Development of screening test methodology to study NVH performance of EV Transmission oil using FZG Gear Test rig

Sandeep Singh, Rahul Meshram, Rameshwar Choudhary, Ratnadeep Joshi, Sarita Seth, Rajendra Mahapatra, Ajay Kumar Harinarain, Sarita Garg, Deepak Saxena, ISFL 2021, SAE No. 21-ISFL-0028

45. Long Life compressor Oil : from Lab evaluation to field validation

Chanakya Tripathi, L. M. Pandey, MNK Bolisetty, Kavita Rai, Pankaj Bhatnagar, Sarita Garg, Deepak Saxena, SSV Ramakumar, ISFL 2021, SAE No. 21-ISFL-0057

46. **Field Performance Validation of Synthetic Flushing Fluid for Hot Oil System Cleaning**
Shruti K.S, S.B.Kumhar, Anil Bhardwaj, Kavita Rai, Pankaj Bhatnagar, Sarita Garg, Deepak Saxena, SSV Ramakumar, ISFL 2021, SAE No. 21-ISFL-0037
47. **Assessing Efficiency Benefits of Low Viscosity Gasoline Engine Oils**
Sarita Seth, Swami Maloth, Puneet Singh, Prashant Kumar, A.S.Ramadhas, R.Mahapatra, Pankaj Bhatnagar, Sarita Garg, Deepak Saxena, SSV Ramakumar, ISFL 2021, SAE No. 21-ISFL-0060
48. **Field Performance of Agricultural Spray Oil for Controlling Pests and Diseases on Mango Crop**
Neelam Aggarwal, Gutta Naresh, Simmi Datta, J.N.Pandey, Pankaj Bhatnagar, Sarita Garg, Deepak Saxena and SSV Ramakumar, ISFL 2021,
49. **Development and Field Performance of Water based Cleaning Solution**
Sweety Rathi, Simmi Datta, J.N.Pandey, Pankaj Bhatnagar, Sarita Garg, Deepak Saxena and SSV Ramakumar, ISFL 2021,
50. **Field Performance of a New Generation Gas Engine Oil Lubricant for Extended Oil Drain Potential**
Bijan Roy, Yogesh Kumar Sharma, Sarita Seth, Pankaj Bhatnagar, Sarita Garg, Deepak Saxena and SSV Ramakumar, ISFL 2021,
51. **Field Performance of Agricultural Spray Oil for Controlling Pests and Diseases on Mango Crop**
Vilas Ramtenki, Neelam Aggarwal, Simmi Datta, J.N.Pandey, Pankaj Bhatnagar, Sarita Garg, Deepak Saxena and SSV Ramakumar, ISFL 2021,