

## REFERENCES

1. White, J. R. and De, S. K., (2001), *Rubber Technologist Handbook* 1<sup>st</sup> Edition, Shropshire, UK: RAPRA Technology Limited.
2. Blackley, D. C., (1997), *Polymer Latices: Science and Technology Volume 1: Fundamental Principles*, Second Edition, Chapman and Hall, London.
3. Blackley, D.C., (1997), *Polymer Latices: Science and Technology Volume 2: Types of lattices*, Second Edition, Chapman and Hall, London.
4. Cheng, S. F., (1988), *Types, Composition, Properties, Storage and Handling of Natural Rubber Latex Concentrates*, Limited Circulation. Notes on Natural Rubber Examination Glove Manufacture, P. 1-12. Rubber Research Institute of Malaysia.
5. Rama Rao, P. S., John, C. K. and Ng, C. S., (1976) "Commercial Exploitation of TMTD/Zinc Oxide Preservative System" RRIM Planters Conference 1976
6. John, C. K., Wong, N. P., Chin, H. C., Zin, M. K. and Ong, C. T., (1982). "LA - TZ Latex Concentrate", *RRIM Technology Bulletin-6* (1982)
7. Gazeley, K. D., Gorton, A. D. T. and Pendle, T. D., (1998), "Latex Concentrates: Properties and Compositions", Chap. 3 in *Natural Rubber Science and Technology Science*, Oxford Science Publication, London.
8. Ahmad, I., Sethu, S., Zin, M. K. and Zaid, I., (1979), "Anaerobic/Facultative Ponding System for Treatment of Latex

- Concentrate Effluent", *Proceedings of Rubber Research Institute Malaysia Planters Conference*, Kuala Lumpur (1979).
9. Zaid, I., Nordin, A. K. and Devaraj, V., (2000). "Assessment of Odour from Natural Rubber Processing" (Paper No. 4), *Proceedings of Seminar: Standard Malaysia Rubber and Related Issues*, Malaysian Rubber Board, Sungei Buloh, Selangor, Malaysia, 22 August 2000.
  10. Rhodes, E. and Wiltshire, J. L., (1932), "Quebrachitol - a possible by-product from latex", *Journal of Rubber Research Institute of Malaya*, 3(3), (1932), P. 160-171.
  11. Lau, C. M., (1996). "Quebrachitol – an additional role for Hevea latex", *Rubber Developments*, Vol. 49,(1996), P.11- 13, Malaysian Rubber Research and Development Board , Kuala Lumpur.
  12. Lau, C. M., (1994). "Concentration of Natural Rubber Serum by Reverse Osmosis", *Journal of Natural Rubber Research*, 9(4), (1994), P. 226-241.
  13. Lau, C. M., Subramaniam, A. and Tajima, Y., (1989). "Recovery and Applications of Waste Solids from Natural Rubber Latex Serum. *Proceedings, RRIM Rubber Growers, Conference, Malacca, (1989)*, P. 525-547.
  14. Saraswathy, S., (1987). "Study on Protein Kinase found in Hevea Brasiliensis Latex". M. Sc. Thesis, Faculty of Science, National University of Malaysia.
  15. Devaraj, V., Meriam, N.S., Nambiar, J. and Yusof, A., (2003). "Environmentally Friendly Natural Rubber Latex Concentration via Membrane Separation Technology". *Proceedings of The 5<sup>th</sup> International*

*Membrane Science and Technology Conference*, 10-14 November 2003  
University of New South Wales, Sydney, Australia.

16. Devaraj, V., Meriam, N.S., Nambiar, J. and Yusof, A., (2003). "Concentration of NR field latex using Tubular Cross Flow Ultrafiltration System", *Journal of Rubber Research*, 6(1), (2003), P.13-35.
17. Nambiar, J., (1993), "Concentration of Epoxidised NR Latex by Ultrafiltration", *Proceedings of International Rubber Technology Conference*, Kuala Lumpur, (1993).
18. Joseph, J. S. S. and Mir, L., (1982), "Reducing Energy Requirement in Latex Concentration by Ultrafiltration", *Ind. Eng. Chem. Prod. Res. Dev.*, 21 (1982), P.63-68
19. Tanaka, Y. and Kawasaki, A., (1995), "Highly Purified Natural Rubber: Effect of Small Rubber Particles", *Proceedings of IRC '95 Kobe International Rubber Conference 23-27<sup>th</sup> October 1995, Kobe, Japan*, P. 247-250.
20. Novalic, S., Heisler, G. and Josef, L., (1997), "Cross-flow filtration of latex emulsion on a pilot scale using organic and inorganic membranes with different cut-off values", *J. Membrane Science*, 130 (1997), P. 1-5
21. Singh, N. Membrane Online: "Overview of Membrane Technology", <http://www.membraneonline.com/Overview/index.htm>.
22. Cheryan M., (1998), *Ultrafiltration and Microfiltration Hand Book*, 2<sup>nd</sup> Ed., Technomic Publishing Co., Lancaster, USA.
23. Zeman, L. J and Zydney, A. L., (1996), *Microfiltration and Ultrafiltration Principles and Applications*, Marcel Dekker Inc., New York.

24. Orchard, A. C. J., (1989), "Recent Development in Critical Filtration Applications", *Proceedings of the International Conference on Membrane Separation Processes*, Brighton, UK (1989), P. 65-103
25. Shamel, M. M., (1999), "Ultrafiltration Studies on Pectin-glucose Solutions with Pulsatile Flow in-situ Cleaning", M. Eng. Sc. Thesis, Department of Chemical Engineering, University of Malaya.
26. Tempel, V. M., (1942), *Transactions of the Institution of Rubber Industry*, Vol. 18 (1942), P. 272 -290.
27. Pendal, T. D. and Swinyard, P. E., (1994), "The Particle Size of Natural Rubber Latex Concentrates by Photon Correction Spectroscopy", *Journal of Natural Rubber Research*, 6(1), (1990), P. 1-11.
28. Kaszubra, M., (2002) Malvern Instruments Website, last updated on 2002.11.15, "Factors Affecting Zeta Potential", <http://www.malvern.co.uk>.
29. Louis, R., (1993), *Coagulation and Flocculation*, 4<sup>th</sup> Edition, Zeta-Meter, Inc. Middlebrook Avenue, Staunton, Virginia, USA.
30. Ng, P. K., Mazam, M. S., Lai, P. F. and Abu, A., (2003), "Development of Low Protein Lattices", *Malaysian Rubber Board Monograph* No. 17 (2003).
31. Devaraj, V., (2000), "Analysis of Air Pollutants in Raw Rubber Processing Factories", *Short Course on Environment Management for Rubber Industry*, Malaysian Rubber Board, Sungei Buloh, Selangor, Malaysia, 16-17 August 2000.
32. Millipore Pharmaceutical Process Separation Catalogue (1999), Millipore Corporation, USA.

33. Chun, M. S., Chung, Y. and Kim, J. J., (2001), "On the behaviour of the electrostatic colloidal interaction in the membrane filtration of latex suspensions", *J. Membrane Science*, 193 (2001), P. 97-100
34. Bird, M. R. and Bartlett, M., (2002), "Measuring and modeling flux recovery during the chemical cleaning of MF membranes for the processing of whey protein concentrate", *J. Food Processing Engineering*, 53 (2002), P. 143-152.
35. Howell, J. A., (2000), "Membrane Separation Process Principles and Applications", *Short Course Notes*, 21-22 November 2000, University Malaya, Kuala Lumpur, Malaysia.
36. McCarthy, A. A., Walsh, P. K. and Foley, G., (2002), "Experimental Techniques for Quantifying the Cake Mass, the Cake and Membrane Resistances during Cross-flow filtration of Microbial Suspensions", *J. Membrane Science*, 201 (2002), P. 31-45.
37. Low, W. L., (2001), "Nanofiltration Studies of Binary & Ternary Salt Systems and Prediction of its Performance using Donnan Steric Pore Model", M. Eng. Sc. Thesis, Department of Chemical Engineering, University of Malaya.
38. Alister, S. G., Wirote, Y. and Michael, J. L., (2000), "Hydrdynamic factors affecting flux and fouling during Ultrafiltration of Skimmed Milk", *INRA EDP Science Lait* 80, P.165-174, (2000).
39. Service and Operating Manual (1999) *Sand Piper Model EB 1 2 -A* Diaphragm Pump.

40. Subramaniam, A., (1980), "Molecular Weight and Molecular Weight Distribution of Natural Rubber", *RRIM Technology Bulletin - 4* (1980)
41. Ivars, B. and Karen, N., (1988), "Ultrafiltration as a Competitive Unit Process", *Technology Bulletin of Koch Membrane*, No. 250, Vol. 82, P. 67-77 (1988), Dorr-Oliver, Incorporated, Stamford, CT.
42. Cartwright, P. S., (1989), "From Pilot to Production of System Design and Scale-up *Proceedings of the International Conference on Membrane Separation Processes*, Brighton, UK (1989), P. 65-78, Paper C1.
43. Wolf, H., (1986), "Cell Harvesting", Chapter 2 in *Membrane Separation in Biotechnology* edited by McGregor, W. C., (1986), Marcel Dekker Inc., New York.
44. Vaisanen, P., Bird, M. R. and Nystrom, M., (2002), "Treatment of Ultrafiltration Membranes with Simple Formulated Cleaning Agents", *Institution of Chemical Engineers, Trans I. Chem. Eng.*, Vol. 80, Part C, June 2002.
45. Shorrock, C. J. and Bird, M. R., (1998), "Membrane Cleaning: Chemically Enhanced Removal of Deposits formed during Yeast Cell Harvesting", *Institution of Chemical Engineers, Trans I. Chem. Eng.*, Vol. 76, Part C, March 1998.
46. Nagata, N., Herouvis, K. J., Dziejulski, D. M. and Belfort, G., (1989), "Cross-flow Membrane Microfiltration of a Bacterial Fermentation Broth", *Biotech Bioengineering*, Vol. 34, (1989), P. 447 – 466.