REFERNECES

- Benn, F.W. and Cornell, W.L. (1993) Removal of Heavy Metals from Missouri Lead Mill Tailings by Froth Flotation. <u>Separation Science and Technology</u>, 28, 733 – 746.
- Bourrel, M. and Schechter, R.S. (1988) <u>Microemulsions and Related Systems</u>. New York: Marcel Dekker.
- Chavadej, S., Phoochinda, W., Yanatatsaneejit, U., and Scamehorn, J.F. (2004) Clean-up of Oily Wastewater by Froth Flotation: Effect of Microemulsion Formation III: Use of Anionic/Nonionic Surfactant Mixtures and Effect of Relative Volumes of Dissimilar Phases. <u>Separation Science and Technology</u>, 39, 3021 – 3036.
- Choi, S.J. and Choi. Y.H. (1996) Removal of Direct Red from Aqueous Solution by Foam Separation Techniques of Ion and Adsorbing Colloid Flotation. <u>Separation Science and Technology</u>, 31, 2105 – 2116.
- Clarke, A.N., Currin, B.L., and Wilson, D.J. (1979) The Removal of Metallo-Cyanide Complexes by Foam Flotation. <u>Separation Science and Technology</u>, 14, 141 – 153.
- Feng, D. and Aldrich, C. (2000) Removal of Diesel from Aqueous Emulsions by Flotation. Separation Science and Technology, 35, 2159 2172.
- Huh, C. (1979) Interfacial Tensions and Solubilizing Ability of a Microemulsion Phase That Coexits with Oil and Brine. <u>Journal of Colloid and Interface</u> <u>Science</u>, 71, 408 – 426.
- Kabil, M.A. and Ghazy, S.E. (1994) Separation of Some Dyes from Aqueous Solutions by Flotation. <u>Separation Science and Technology</u>, 29, 2533 2539.
- Koutlemani, M.M., Mavros, P., Zouboulis, A.I., and Matis, K.A. (1994) Recovery of Co²⁺ Ions from Aqueous Solutions by Froth Flotation. <u>Separation Science and</u> <u>Technology</u>, 29, 867 – 886.
- Leu, M.H., Chang, J.E., and Ko, M.S. (1994) Removalof Heavy Metals from a Chelated Solution with Electrolytic Foam Separation. <u>Separation Science and</u> <u>Technology</u>, 29, 2245 – 2261.

- Martin, E.J., Oppelt, E.T., and Smith, B.P. (1992) <u>Chemical, Physical, and Biological</u> <u>Treatment</u>. New York: John Wiley and Son.
- Matis, K.A. and Zouboulis, A.I. (1995) <u>Flotation Science and Engineering</u>. New York: Marcel Dekker.
- Pattayakorn, P. (2002) <u>Microemulsion formation and detergency of Dowfax</u> <u>surfactant.</u> M.S. Thesis in the Polymer Science, The Petroleum and Petrochemical College, Chulalongkorn University.
- Phoochinda, W. (1999) <u>Removal of Emulsified Oil from Wastewater Using Froth</u> <u>Flotation.</u> M.S. Thesis in Petrochemical Technology, The Petroleum and Petrochemical College, Chulalongkorn University.
- Pondstabodee, S., Scamehorn, J.F., Chavadej, S., and Harwell, J.H. (1998) Cleanup of Oily Wastewater by Froth Flotation: Effect of Microemulsion Formation. <u>Separation Science and Technology</u>, 33, 591 – 609.
- Ratanarojanatam, P. (1995) <u>Clean-up of Oily Waste Water by Froth Flotation: Effect</u> of <u>Microemulsion Formation by Surfactant Mixtures.</u> M.S. Thesis in Petrochemical Technology, The Petroleum and Petrochemical College, Chulalongkorn University.
- Rosen, M.J. (1989) <u>Surfactants and Interfacial Phenomena</u>. 2nd Ed., New York: John Wiley and Sons.
- Taylor, K.C. and Hawkins, B.F. (1992) <u>Emulsion: Fundamentals and Applications in</u> <u>the Petroleum Industry</u>. Washington DC: American Chemical Society.
- Tharapiwattananon, N., Scamehorn, J.F., Osuwan, S., Harwell, J.H., and Haller, K.J. (1996) Surfactant Recovery from Water Using Foam Fractionation. <u>Separation</u> <u>Science and Technology</u>, 31, 1233 – 1258.
- Winsor, P.A. (1954) <u>Solvent Properties of Amphiphilic Compounds</u>. London: Butterworths Scientific Publications.
- Wu, B., Harwell, J.H., Sabatini, D.A., Bailey, J.D. (2000) Alcohol-free diphenyl oxide disulphonate middle-phase microemulsion system. <u>Journal of Surfactants</u> <u>and Detergents</u>, 3, 465 – 474.
- Wungrattanasopon, P., Scmehorn, J.F., Chavadej, S., Saiwan, C., and Harwell, J.H. (1996) Use of Foam Flotation to Remove *tert*-Butylphenol from Water. <u>Separation Science and Technology</u>, 31, 1523 – 1540.

Zouboulis, A.I., Lazaridis, N.K., and Zamboulis, D. (1994) Powdered Activated Carbon Separation from Water by Foam Flotation. <u>Separation Science and</u> <u>Technology</u>, 29, 385 – 400.



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- Chavadej, S., Phoochinda, W., Yanatatsaneejit, U., Scamehorn, J.F. (2004) Clean-up of Oily Wastewater by Froth Flotation: Effect of Microemulsion Formation III: Use of Anionic/Nonionic Surfactant Mixtures and Effect of Relative Volumes of Dissimilar Phases. <u>Separation Science and Technology</u>, 3021 – 3036.
- Yanatatsaneejit, U.; Witthayapanyanon, A.; Rangsunvigit, P.; Acosta, E.J.; Sabatini, D.A.; Scamehorn, J.F.; Chavadej, S. Ethylbenzene Removal by Froth Flotation under Middle-Phase Microemulsion Formation I: Interfacial Tension, Foamability, and Foam Stability, submitted to Sep. Sci. Technol. (Accepted)
- 4. **Yanatatsaneejit, U.**; Chavadej, S.; Rangsunvigit, P.; Scamehorn, J.F. Ethylbenzene Removal by Froth Flotation under Middle-Phase

Microemulsion Formation II: Effects of Air Flow Rate, Oil to Water Ratio, and Equilibration Time, submitted to Sep. Sci. Technol. (Accepted)

Proceedings:

- Yanatatsaneejit, U., Phoochinda, W., Ratanarojanatam, P., Chavadej, S., Scamehorn, J.F. (2003) Effect of Microemulsion Formation on Oily Wastewater Treatment by Using Froth Flotation Techniquie. Proceeding of First International Symposium on Process Intensification and Miniaturisation, August 18 – 21, 2003, Newcastle, UK.
- Witthayapanyanon, A., Yanatatsaneejit, U., Scamehorn, J.F., Chavadej, S. (2003) Light Oil Removal from Wastewater by Middle-Phase Microemulsion and Froth Flotation. Proceeding of First International Symposium on Process Intensification and Miniaturisation, August 18 21, 2003, Newcastle, UK.
- Yanatatsaneejit, U., Chavadej, S., Rangsunvigit, P., Scamehorn, J.F. (2004) Effect of Interfacial Tension and Foam Characteristics on Diesel Removal in Froth Flotation Operation. Proceeding of 10th APCChE Congress, October 17 – 21, 2004, Kitakyushu, Japan.
- Chungchamroenkit, P., Yanatatsaneejit, U., Kitiyanan, B., Chavadej, S., Scamehorn, J.F., Resasco, D.E. (2004) Separation of Carbon Black from Silica by Froth Flotation Technique as an Approach for Single-Walled Carbon Nanotubes Purification. Proceeding of 10th APCChE Congress, October 17 – 21, 2004, Kitakyushu, Japan.

Presentations:

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