

## BIBLIOGRAPHY

1. Pathom Yamkate. "The investigation of mercury content in some common fish in the Gulf of Thailand by means of neutron activation analysis" Master's thesis, Department of Nuclear Technology, Graduate School, Chulalongkorn University, 1976.
2. D' Itri, F.M. The Environmental Mercury Problem. Cleveland: Chemical Rubber Co., 1972.
3. Alimentaries, C. Comission Report of the 1st. Session. Rome, 1963.
4. Lamn C.G., and Ruzicka, J. "The Determination of of Traces of Mercury by Spectrophotometry Atomic Absorption, Radioisotope Dilution and Other Methods" In Mercury Contamination in Man and his Environment. Technical Report Series No.137. pp 111-129. Vienna: International Atomic Energy Agency, 1972.
5. Tong, S.S.C., Gutenmann, W.H., and Lisk D.J. "Determination of Mercury in Apples by Spark Source Mass Spectrometry." Anal.Chem. 41(1969):1872.
6. Olson, E.C., and Shell, J.W. "X-ray Fluorescence Determination of Mercury." Anal.Chim.Acta. 23 (1960):219.

7. Perone, S.P., and Kretlow, W.J. "Anodic Stripping Voltammetry of Mercury (II) at the Graphite Electrode!" Anal. Chem. 37(1965):968.
8. Rancitelli, L.A., Cooper, J.A., and Perkins, R.W. "The Multielement Analysis of Biological Material by Neutron Activation and Direct Instrumental Techniques!" Proceedings of the 1968 International Conference, Modern Trends in Activation Analysis. pp.101-109. De Voe, J.R., Ed. National Bureau of Standards Special Publication. 312. Volume 1, 1969.
9. Haller, W.A., et.al. "The Instrumental Determination of Fifteen Elements in Plant Tissue by Neutron Activation Analysis!" pp. 177-183. ibid.
10. Guinn, V.P., and Kishore, R. "Some New Aspects of the Neutron Activation Analysis Determination of Mercury in Sea-foods!". Nuclear Methods in Environmental Research. pp.201-204. 1971.
11. Westermark, T., and Sjostrand, B. "Activation Analysis of Mercury!". Int. J. Appl. Radiat. Isot. 9(1960).
12. Sjostrand, B. "Simultaneous Determination of Mercury and Arsenic in Biological and Organic Materials by Activation Analysis!" Anal. Chem. 36(1964):814.

13. Brune, D. "Aspects of Low Temperature Irradiation in Neutron Activation Analysis". Anal. Chim. Acta. 44 (1969):15.
14. Brune, D. "Low Temperature Irradiation Applied to Neutron Activation Analysis of Mercury in Human Whole Blood." Acta. Chem. Scand. 20(1966):1200.
15. Kim, C.K., and Silverman, J. "Determination of Mercury in Wheat and Tobacco Leaf by Neutron Activation Analysis Using Mercury-197 and a Simple Exchange Separation." Anal.Chem. 37(1965):1616.
16. Smith, H. "Estimation of Mercury in Biological Material by Neutron Activation Analysis." Anal.Chem. 35(1963):635.
17. Kosta, L., and Byrne, A.R. "Activation Analysis for Mercury in Biological Sample at Nanogram Level." Talanta. 16(1969):1297-1303.
18. Rook, H.L., Gills, T.E., and La Fleur, P.D. "Method for Determination of Mercury in Biological Materials by Neutron Activation Analysis." Anal.Chem. 44(1972):1114-1117.
19. Ballard, A.E., et.al. "Photometric Mercury Analysis, Correction for Organic Substances." Anal. Chem. 26(1954):921.

20. Ling, C. "Portable Atomic Absorption Photometer for Determining Nanogram Quantities of Mercury in the Presence of Interfering Substances." Anal.Chem. 40(1968):1876.
21. Toribara, T.Y., and Shields C.P. "The Analysis of Submicrogram Amounts of Mercury in Tissues." Am. Ind. Hyg. Assoc. J. 29(1968):87.
22. Jacobs, M.B., et.al. "Determination of Mercury in Blood." Am. Ind. Hyg. Assoc. J. 21(1960):475.
23. Jacobs, M.B., Goldwater, L.J., and Gilbert, H. "Ultramicrodetermination of Mercury in Blood." Am. Ind. Hyg. Assoc. J. 21(1961):276.
24. Ulfvarson, U. "Determination of Mercury in Small Quantities in Biologic Material by a Modified Photometric-Mercury Vapor Procedure." Acta.Chem. Scand. 21(1967):641.
25. Lidmus, V., and Ulfvarson, U. "Mercury Analysis in Biological Materials by Direct Combustion in Oxygen and Photometric Determination of the Mercury Vapor." Acta Chem. Scand. 22(1968):2150.
26. Kudsk, F.N. "Determination of Mercury in Dithizone Extracts by Ultra-Violet Photometry." Scand. J. Clin. Lab. Invest. 17(1965):171.

27. Chau, Y.K., and Saitoh, H. "Determination of Submicrogram Quantities of Mercury in Lake Waters. Environ. Sci. Technol." 4(1970):839.
28. Lindstrom, O. "Rapid Microdetermination of Mercury by Spectrophotometric Flame Combustion." Anal. Chem. 31(1959):461.
29. Berman, E. "Determination of Cadmium, Thallium and Mercury in Biological Materials by Atomic Absorption." Atom. Absorp. Newslett. 6(1967):57.
30. Brandenberger, H., and Bader, H. "Determination of Mercury by Flameless Atomic Absorption." Atom. Absorp. Newslett. 7(3)(1968):53-54.
31. Brandenberger, H., and Bader, H. "Determination of Nanograms Amounts of Mercury in Solutions by a Flameless Atomic Absorption Method." Helv. Chim. Acta. 50(1967):1409-15.
32. Slavin, W. Atomic Absorption Spectroscopy. p.46. New York: Interscience. 1968.
33. L'vov, B.V. "The Analytical Use of Atomic Absorption Spectra." Spectrochem. Acta. 17(1961):761.
34. Poluektov, N.S., Vitkun, R.A., and Zelyukova, Yu.V. "Determination of Milligram Amounts of Mercury by Atomic Absorption in Gas Phase." Zh. Analit. Khim. 19(1964):19.

35. Magos, L., and Cernik, A.A. "A Rapid Method for Estimation of Mercury in Undigested Biological Samples." Br.J.Ind. Med. 26(1969):144.
36. Uthe, J.F., Armstrong, F.A.J. and Stainton, M.P. "Mercury Determination in Fish Sample by Wet Digestion and Flameless Atomic Absorption Spectrophotometry." J.Fish Res.Bd.Can. 27(1970):805.
37. Hatch, W.R., and C't, W.L. "Determination of Sub-microgram Quantities of Mercury by Atomic Absorption Spectrophotometry." Anal. Chem 40(1968):2085.
38. Igoshin, A.M., and Bogusevich, L.N. "Flameless Atomic Absorption Method of Determination of Mercury in Natural Waters." Gidrokhim. Mater. 47(1968):150.
39. Dall'Aglio, M. "Determination of Mercury in Natural Waters." Att. Soc. Toscana Sci. Nat., Mem., Ser. A. 73 (1966):553.
40. Dall' Aglio, M. "The Abundance of Mercury in 300 Natural Water Samples from Tuscany and Latium." In Origin and Distribution of the Elements. p.1065. Edited by Ahrens, L.H. Oxford: Pergamon Press, 1968.

41. Hinkle, M.E., and Learned, R.E. "Determination of Mercury in Natural Waters by Collection on Silver Screens." U.S. Geol. Survey Prof. Paper 650-D (1969):D 251.
42. Anon. "Determination of Mercury by Atomic Absorption Spectrophotometric Method-Applicable to: Water, Brines, Caustic, Fish, Sludges, Mud, Hydrogen and Air." Michigan: Dow Chemical Co., 1970.
43. Dill, M.S. "Determination of Submicrogram Quantities of Mercury in Water and Lithium Hydroxide Solutions." Report No. Y-1572. Oak Ridge, Tenn.: Union Carbide Corp., 1967.
44. Kimura, Y., and Miller, V.L. "Mercury Determinations and the Microgram Level by a Reduction-Aeration Method of Concentration." Anal.Chim. Acta 27 (1962):325.
45. Smart, N.A. "Use and Residues of Mercury Compounds in Agriculture." In Residue Reviews. Vol.23. p.1. Gunther, F.A., Ed. New York: Springer-Verlag, 1968.
46. Smart, N.A., and Hill, A.R.C. "Determination of Mercury Residues in Potatoes, Grain, and Animal Tissues Using Perchloric Acid Digestion." Analyst. 94 (1969):143.

47. Gorsuch, T.T. "Radiochemical Investigations on the Recovery for Analysis of Trace Elements in Organic and Biological Materials." Analyst. 84(1959):135.
48. Klein, A.K. "Report on Mercury." J. Assoc. Off. Anal. Chem. 35(1952):357.
49. Epps, E.A. "Colorimetric Determination of Mercury Residues on Rice." J. Assoc. Off. Anal. Chem. 49(1966):793.
50. Simonsen, D.G. "Determination of Mercury in Biological Materials." Am. J. Clin. Pathol. 23(1953):789.
51. Kudsk, F.N. "Determination of Mercury in Biological Materials, a Specific and Sensitive Dithizone Method." Scand. J. Clin. Lab. Invest. 16(1964):575.
52. Kudsk, F.N. "Chemical Determination of Mercury in Air, an Improved Dithizone Method for Determination of Mercury and Mercury Compounds." Scand. J. Clin. Lab. Invest. 16 Suppl. 77(1964):1.
53. Abbott, D.C., and Johnson, E.I. "Determination of Mercury in Apples." Analyst. 82(1957):206.



54. Kunze, F.M. "Addition of Selenium to Wet-Ash Procedure for the Determination of Mercury in Apple Peel." J. Assoc. Off. Anal. Chem. 31(1948):439.
55. Pickard, J.A., and Martin, J.T. "Determination of Mercury in Plant Material." J. Sci. Food Agric. 11(1960):374.
56. Jacobs, M.B. The Analytical Toxicology of Industrial Inorganic Poisons. p.230. New York: Interscience 1967.
57. Gutenmann, W.H., and Lisk, D.J. "Rapid Determination of Mercury in Apples by Modified Schoniger Combustion." J. Agric. Food Chem. 8(1960):306.
58. Ruzicka, J., and Lamn, C.G. "Automated Determination of Traces of Mercury in Biological Materials by Substoichiometric Radioisotope Dilution." Talanta 66(1969):157-168.
59. Ruch, R.R., Gluskota, H.J. and Kennedy E.J. "Mercury Content in Illinois." Environmental Geology Notes No.43, Illinois State Geological Survey, Urbana, Ill., February, 1971.
60. Pappas, E.G., and Rosenberg, L.A. "Determination of Submicrogram Quantities of Mercury by Cold Vapor Atomic Absorption Photometry." J. Assoc. Off. Anal. Chem. 49(1966):782.

- 227  
15 N.H. 22
- 59
61. Ballard, A.E., and Thornton, C.D.W. "Photometric Method for Estimation of Minute Amounts of Mercury." Ind. Eng. Chem. Anal. Ed. 13(1941):893.
  62. Pappas, E. G., and Rosenberg, L.A. "Determination of Submicrogram Quantities of Mercury in Fish and Eggs by Cold Vapor Atomic Absorption Photometry!" J. Assoc. Off. Anal. Chem. 49(1966):792.
  63. White, M.N., and Lisk, D.J. "Note on the Determination of Mercury in Soil by Oxygen Flask Combustion." J. Assoc. Off. Anal. Chem. 53(1970):530.
  64. Hevesy, G., and Hofer, E. Nature. 134(1934):879.
  65. Rittenberg, D., and Foster, G.L. "A new procedure for quantitative analysis by isotope dilution with application to the determination of amino acids and fat acids." J. Biol. Chem. 133(1940):737-740.
  66. Ruzicka, J., and Stary J. Substoichiometry in Radiochemical Analysis. pp. 42-74, 104. Williams, M.Ed. International Series of Monographs in Analytical Chemistry vol.30. Oxford: Pergamon Press Ltd. 1968.
  67. Skoog, D.A., and West, D.M. "The Evaluation of Analytical Data." In Fundamentals of Analytical Chemistry. p.28. 2nd ed. Inc.: Holt, Rinehart and Winston, 1969.

68. Nerst, W. Z. physik. Chem. 8(1891):110.
69. Fischer, H. Wiss Veröff. Siemens-Werken. 4(1925):158.
70. Sandell, E.B. Colorimetric Determination of Traces of Metals. 3rd. edition. pp.626-629.  
Chemical Analysis vol.3. New York:  
Interscience Publishers, Inc. 1961.
71. Morrison, G.H., and Freiser, H. Solvent Extraction in  
in Analytical Chemistry. pp.173-177, 218.  
New York: John Wiley & Sons, Inc.1957.
72. La Fleur, P.D. "Retention of Hg when Freeze-Drying  
Biological Materials." Anal. Chem. 45(1973):  
1534.

## VITA

Malatee Jingjit (Miss) was born on August 5, 1953 in Trang Province. She enrolled at Chulalongkorn University, Faculty of Science, in 1970 and was awarded a B.Sc. degree in Chemistry in 1974. During March to May of 1973, she was trained at Waste Management Division, Office of Atomic Energy for Peace in the field of Environmental Pollution Studies by nuclear technique. After her graduation, she was awarded a two years scholarship by the University Development Commission for her study towards the Master of Science degree.