REFERENCES

- Adeloju, S.B., Young, T.M., Jagner, D. and Battley, G.E. 1999. Constant current cathodic stripping potentiometric determination of arsenic on a mercury film electrode in the presence of copper ions, *Analytica Chimica Acta*. 381: 207-213.
- Amornrasit, M. and Petsom, A. 1992. Principle and Technique of Instrumental Analysis. 355 p. 1st Bangkok Chounpim Inc.
- Asher, C.J. and Reay, P.F. 1979. Arsenic uptake by barley seedling, *Journal Plant Physiology*. 6: 495-496.
- Brooks, R.R., Lee, J., Reeves, R.D. and Jaffre, T. 1997. Detection of nickeliferous rocks by analysis of herbarium specimens of indicator plant, *Journal of Geochemical Exploration*. 7: 49-57.
- Brown, K.G. and Chen C. J. 1995. Significant of exposure assessment to analysis of cancer risk from inorganic arsenic in drinking water in Taiwan, *Risk Analysis*. 15(4): 475-484.
- Buchet, J.P., Lauwerys, R., Vandevoorde, A. and Pycke, J.M. 1983. Oral daily intake of cadmium, lead, manganese, copper, chromium, mercury, calcium, zinc, and arsenic in Belgium: a duplicate meal study, *Food Chemical Toxicology*. 21: 19–24.
- Chakraborti, D., Basu, G.K., Biswas, B.K., Chowdhury, U.K., Rahman, M.M., Paul, K., Chowdhury, T. R., Chanda, C.R. and Lodh, D. 2001. Characterization of arsenic bearing sediments in Gangetic delta of West Bengal-India, In Arsenic Exposure and Health Effects, pp. 27–52. Chappell, W.R., Abernathy, C.O. and Calderon R.L. (Eds.), Amsterdam: Elsevier.
- Chantaravijit, C., Yaowapanon, Y. and Vetchapan, T. 2000. Risk factors and health risk of people in Ronphibun exposed to arsenic, *Journal of Health Promotion and Environmental health*. 23(1): 70-78. Jan-Mar (in Thai)

- Choprapawon, C. and Rodcline, A. 1997. Chronic arsenic poisoning in Ronphibun, Nakorn Si Thammarat, the southern Province of Thailand, In: Arsenic Exposure and Health Effects, pp. 69-77. Abemathy, C.O., Calderon, R.L. and Chappell, W.R (Eds), London: Chapman & Hall.
- Coelho, N.M.M., Cosmen de Silva, C. and Moraes da Silva, C. 2002. Determination of total inorganic arsenic by flow injection generation atomic absorption spectrometry, *Analytica Chimica Acta*. 460: 227-233.
- Feng, Y.L., Chen, H.Y., Tian, L.C. and Narasaki, H. 1998. Off-line separation and determination of inorganic arsenic species in natural water by high resolution inductively coupled plasma mass spectrometry with hydride generation combined with reaction of arsenic (V) and L-cysteine, *Analytica Chimica Acta*. 375:167-175.
- Food and Drug Administration (FDA), National legistration No 273, 2004, Ministry of Public Health, Thailand (in Thai)
- Francesconi, K., Visoottiviseth, P., Sridokchan, W. and Goessler, W. 2002. Arsenic species in an arsenic hyperaccumulating fern, *Pityrogramma calomelanos*: a potential phytoremediator of arsenic-contaminated soils, *The Science of the Total Environment*. 284: 27-35.
- Hata, N., Yamada, H., Kasahara, I. And Taguchi, S. 1999. Membrane solubilization with tetramethylammonium hydroxide for the preconcentration and electrothermal atomic absorption spectrometric determination of trace amounts of arsenic in water, *Analyst.* 124: 23-26.
- Hoffmann, D.J., Rattner, B.A., Burton, G.A. Jr. and Cairns, J. Jr. 1995. Handbook of Ecotoxicology, pp. 658-659. London.: Lewis Publishers, CRC Press. Inc.
- Huang, Y.C., 1994. Arsenic distribution in soils, In: Arsenic in the environment, pp. 17-49. Nriagu, J.O.(ed.). NewYork: John Wiley &Sons, Inc.
- Hughes, M.F., Menache, M. and Thompson, D.J. 1994. Dose-Dependent Disposition of Sodium Arsenate in Mice Following Acute Oral Exposure, *Fundamental* and Applied Toxicology. 22 (1): 80-90.

- Hung, D.Q., Nekrassova, O. and Comption, R.G. 2004. Analytical methods for inorganic arsenic in water: a review, *Talanta*. 64: 269-277.
- Intarasoot, T. 1988. Arsenic. Pollution in Groundwater Resources at Ampoe Ronphoboon, Changwat Nakorn Si Thammarat, Mining Annual Meeting, Department of Mineral Resources, Ministry of Industry. (in Thai)
- Integrated Risk Information System 1998. Arsenic inorganic CASRN 744038-2.
- Gonzalez, J.C., Lavilla, I. and Bedicho, C. 2003. Evaluation of non-chromatographic approaches for speciation of extractable As(III) As(V) in environmental soil samples by FI-HG-AAS, *Talanta*. 59: 525-534.
- Japan International Cooperation Agency (JICA). 2000. The Environmental Management Planning Survey for Arsenic Contaminated Area of the Nakhon Si Thammarat Province in the Kingdom of Thailand: Final Report. 156 p.
- Jitmanee, K., Oshima, M. and Motomizu S. 2005. Speciation of arsenic(III) and arsenic(V) by inductively coupled plasma-atomic emission spectrometry coupled with preconcentration system, *Talanta*. 66: 529–533.
- Kinniburgh, D.G. and Kosmus, W. 2002. Arsenic contamination in ground water: some analytical consideration, *Talanta*. 58:165-180.
- Kloke, A., Sauerbeck, D.R. and Vetter, H. 1984. The contamination of plants and soils with heavy metals and the transport of metals in terrestrial food chains, In: Changing metal cycles and human health, pp. 113 –141. Nriagu, J. (ed.), Berlin: Springer.
- Leblanc, J., Malmauret, L., Guerin, T., Bordet, F., Boursier, B. and Verger, P. 2000. Estimation of the dietary intake of pesticide residues, lead, cadmium, arsenic and radionuclides in France, *Food additives and contaminants*. 17: 1–8.
- Li, H. and Smart, R.B. 1996. Determination of sub-nanomolar concentration of arsenic(III) in natural waters by square wave cathodic stripping voltammetry, *Analytica Chimica Acta*. 325: 25-32.

- Lioa, X.-Y., Chen, T-B., Xie, Hua. and Liu, R-Y. 2005. Soil As contamination and its risk assessment in the area near the industrial district of Chenzhou City southern Chaina, *Journal of Environmental International*. 3: 791-798.
- Liu, H., Probst, A. and Liao, B. 2005. Metal contamination of soils and crops affected by the Chenzhou lead/zinc mine spill (Hunan, China), *The Science of the Total Environment*. 339: 153-166.
- Liu, Z., Suna, H., Shen, S., Li, L. and Shi, H 2005. Simultaneous determination of total arsenic and total selenium in Chinese medicinal herbs by hydride generation atomic fluorescence spectrometry in tartaric acid medium, *Analytica Chimica Acta*. 550: 151–155.
- Lopez-G, I., Ruiz-A, I. and Hernandez-C, M 2006. Multipumping flow system for improving hydride generation atomic fluorescence spectrometric determinations, *Spectrochimica Acta*. Part B. 61: 368–372.
- Mandal, B.K. and Suzuki, M.K. 2002. Arsenic round the world: review, *Talanta*. 58:201-235.
- Na Chiengmai, N. 1991. Arsenic Concentration in Water, Vegetables, Fruits and Hair of Amphoe Ron Phibun, Nakhon Si Thammarat Province. Songklanakarin, *Journal of Science Technology*. 13(1): 59-67. (in Thai)
- Nakorn Si Thammarat Province Health Office. 1988. The Report on Rectification of Arsenic Poisoning in Ronphibun District, Nakorn Si Thammarat Province. Nakorn Si Thammarat Provincial Health Office. (in Thai)
- Nickson, R.T., McArthur, J.M., Ravenscroft, P., Burgess, W.G. and Ahmed, K.M. 2000. Mechanism of arsenic release to groundwater, Bangladesh and West Bengal, *Applied Geochemistry*. 15: 403-413.
- Nielsen, S. and Hansen, E.H. 1997. Determination of As(III) and As(V) by flow injection-hydride generation-atomic absorption spectrometry via online-reduction of As(V) by KI, *Analytica Chemica Acta*. 343:5-17.

- ONEB 1987. Report of Arsenic Contents of Well Waters in Ronphibun District, Nakorn Si Thammarat Province. Bangkok: The Office of National Environmental Board (ONEB). (in Thai)
- O'Neill, P. 1995. Arsenic, In Heavy metals in soils, pp. 105-121. Alloway, B.J. (ed.), Glassgow: Chapman&Hall.
- Paijitprapaporn, A. and Thongrak, T. 2001. Situation of arsenic poisoning in the environment of Ron Phibun District: A geological information. Presented in the Workshop on Risk Study on Arsenic Poisoning in Ron Phibun District, Nakorn Si Thammarat, 4-7 September 2001, Bangkok (hosted by Ministry of Public Health). (in Thai)
- Piamphongsant, T. 1999. Chronic environmental arsenic poisoning, A review, International Journal of Dermatology. 38: 401-410. (in Thai)
- Pongratz, R. 1998. Arsenic speciation in environmental samples of contaminated soil, *The Science of the Total Environment*. 224: 133-141.
- Pontius, F. W., Brown K.G., and Chen C.J. 1994. Health Implications of Arsenic in Drinking water, *Journal of American Waste Work Association*. 86: 52-63.
- Rakwong, K. 1999. Risk behavior and sources of exposure to arsenic in school children at Tambon Ron Phibun Amphoe Ron Phibun, Changwat Nakhon Si Thamarat. MSc. Thesis, Faculty of Environmental Management, Prince of Songkla University, Thailand. (in Thai)
- Robinson, K.A. 1987. Chemical Analysis, pp. 196-197. Boston: Little Brow and Company.
- Samanta, G., Chowdhury, T.R., Mandal, B.K., Biswas, B.K., Chowdhury, U.K., Basu, G.K., Chanda, C.R., Lodh, D., and Chakraborti, D. 1999. Flow injection hydride generation atomic absorption spectrophotometry for determination of arsenic in water and biological samples from arsenic-affected Districts of west Bengal, *India and Bangladesh Microchemical Journal*. 62: 174-191.
- Sharma, A. K. and Tjell, J. C. 2003. Can water storage habits influence the cancer risk of drinking arsenic contaminated water. In: Fate of Arsenic in the

Environment, Proceedings of the BUET-UNU International Symposium, 5-6 February 2003, Dhaka, Bangladesh.

- Sheppard, S.C., 1992. Summary of phytotoxic levels of soil As, *Water Air & Soil Pollution*. 64: 539–550.
- Shi, J-b., Tang, Z-y., Jin, Z-x., Chi, O. and Bin H, G-b. J. 2003. Determination of As (III) and As(V) in soils using sequential extraction combined with flow injection hydride generation atomic fluorescence detection, *Analytica Chimica*. 477: 139–147.
- Simon, S., Florence, H.T.P. and Potin-Gautier, M. 2004. Simultaneous determination of twelve inorganic and organic arsenic compounds by liquid chromatography–ultraviolet irradiation–hydride generation atomic fluorescence spectrometry, *Journal of Chromatography A*. 1024: 105–113.
- Sirinawin, W. and Sompongchayakul, P. 2004. Arsenic in Ronphibun Sub-District, Nakhon Si Thammarat : A Review Procedures of the LUCED International workshop on (Management of Resources in Urban Area and Industry focus on Nutrient Recycling) and CHASE (Chemical Assessment of the Environment), 15-16 June 2004, Suratthani.
- Skoog, D.A., West, D.M. and Holler, S.R. 2004. Fundamentals of Analytical Chemistry, 8th ed. Australia : Thomson Brooks/Cole. Inc.
- Smitinande, T. 2001. Thai plant names (Revised Edition). Bangkok: The Forest Herbarium Royal Forest Department, Thailand. (in Thai)
- Sun, Y.C., Mieerzwa, J. and Yang, Mo-Hs. 1997. New method gold-film electrode preparation for anodic stripping voltametric determination of arsenic (III and V) in sea water, *Talanta*. 44: 1379-1387.
- Sun, Y.C. and Yang, J.Y. 1999. Simultaneous determination of arsenic (III, V), selenium (IV, VI), and antimony (III, V) in natural water by coprecipitation and neutron activation analysis, *Analytica Chimica Acta*. 395: 293-300.
- Stater, C.S., Holmes, R.S. and Byers, H.G. 1937. United State Department of Agriculture, *Technical Bulletin*. 552:23.

- Suwanmanee, A. 1990. Distribution of Arsenic in the Environment of Aumpoe Ronphibul, Changwat Nakhon Si Thammarat, M.Sc. Thesis, Faculty of Environmental Management, Prince of Songkla University, Thailand. (in Thai)
- Svancara, I., Vytras, K., Bobrowski, A. and Kalcher, K. 2002. Determination of arsenic at a gold-plated carbon paste electrode using constant current stripping analysis, *Talanta*. 58: 45-55.
- Tan, K.H. 2005. Soil sampling and preparation and analysis, pp. 9-10. 2nd ed. New York: Taylor & Francis group.
- Tongboriboon, T. 1997. Arsenic contamination in Aquatic Organisms from Tambon Ronpibul to Pak Phanang River Basin, Changwat Nakhon Si Thammarat, M.Sc. Thesis, Faculty of Environmental Management, Prince of Songkla University, Thailand. (in Thai)
- Tseng, W.P., Chu, H.M., How, S.W., Fong, J.M., Lin, C.S. and Yen, S. 1968. Prevalence of skin cancer in an endemic area of chronic arsenicism in Taiwan, *Journal of the National Cancer Institute*. 40(3): 453-463.
- Tseng, W.P. 1977. Effects and dose-response relationships of skin cancer and Blackfoot disease with arsenic, *Environ. Health Perspect.* 19: 109-119
- Visoottiviseth, P., Francesconi, K., Sridokchan, W. 2002. The potential of Thai indigenous plant species for the phytoremediation of arsenic contaminated land, *Environmental Pollution*. 118(3): 453 461.
- U.S. Environmental protection Agency (EPA) 1992. Guideline for exposure assessment. Washington, D.C.
- Warren, G.P., Alloway, B.J., Lepp, N.W, Singh, B., Bochereau , F.J.M. and Penny C. 2003. Field trials to assess the uptake of arsenic by vegetables from contaminated soils and soil remediation with iron oxides, *The Science of the Total Environment*. 311:19-33.

- Wauchope, R.D., 1983. Uptake, translocation and phytotoxicity of As in plants. In:Lederer, W.H., Fensterheim, R.J. (Eds.), As: Industrial, Biomedical,Environment Perspectives. New York: Van Nostrand Reinhole company.
- Whetstone, R.R., Robinson, W.O. and Byers, H.G. 1942. United State Department Agriculture, *Technical Bulletin*. 797:32.
- Williams, M., Fordyce, F., Paijitprapapon, A. and Charoenchaisri, P. 1996. Arsenic contamination in the surface drainage and groundwater in part of the Southeast Asian tin belt, Nakorn Si Thammarat Province, southern Thailand, *Environmental Geology*. 27:16-33.
- WHO Arsenic Compound, Environmental Health 2001. Criteria 224, 2nd edition, World Health Organization, Geneva.
- Wongsanoon, J., Bunchalermkit, S., Srilachai, S., Fuguda, M., Nakamura, S. and Klusman, R. 1997. A novel soil gas technique applied to an arsenic contaminated area of Ron Phibun, southern Thailand. Proceeding of the Conference on Toxic Metal Studies of Pak Panang and Pattani River Basins, 17 October 1997, Research and Development Office, PSU, Songkhla, p. 3-11. (in Thai)
- Yost, L.J., Schoof, R.A. and Aucoin, R. 1998. Intake of inorganic arsenic in the North American diet, *Human and Ecological Risk Assessment*. 4: 137–152.
- Ysart, G., Miller, P., Crews, H., Robb, P., Baxter, M., De L'Argy, C., Lofthouse, S., Sargent, C. and Harrison, N. 1999. Dietary exposure estimates of 30 elements from the UK total diet study, *Food Additive and Contaminant*. 16: 391–403.
- Yu, C., Cai, Q., Guo, Z-X., Yang, Z. and Khoo, S.B. 2003. Inductively coupled plasma mass spectrometry study of the retention behavior of arsenic species on various solid phase extraction cartridge and its application in arsenic speciation, *Spectrochimica Acta Part B*. 58: 1335–1349.
- Zhang, J., Chen, X., Parkpain, P., Tabucanon, M.S. and Mongkolsuk, S. 2001. GIS application on arsenic contamination and its risk assessment in Ronphibun, Nakhorn Si Thammarat, Thailand, *Geographic Information Sciences*. 7: 69-78.

Zhang, O., Minami, M., Inoue, S. and Atsuya, I. 2004. Differencetial determination of trace amouths of arsenic(III) and arsenic(V) in sea water by solid sampling atomic absorption spectrophotometry after preconcentration by coprecipitation with nikle-pyrolidnedithiocarbamate complex, Analytica Chemica Acta

http://www.epa.gov/iris/subst/0278.htm. access. 26 /April/2006