

REFERENCES

- Ayers, G.P., Keywood, M.D., Gillett, R., Manins, P.C., Malfrroy, H. and Bardsley, T., 1998. Validation of passive diffusion samplers for SO₂ and NO₂. *Atmospheric Environment* 32, 3587 -3592.
- Bush,T., Stuart, S., Ken S. and Stephen M., 2001. Validation of nitrogen dioxide diffusion tube methodology in the UK. *Atmospheric Environment* 35, 289-296.
- Borisuttichun P., 2008. Construction of test kit for determination of sulfur dioxide in ambient air by passive sampling. M.S. Thesis. Chiang Mai University, Thailand.
- Colls,J., 2002. Air pollution. Clay's library of health and the environment. London. 163-223.
- De Santis, F., Allegrini, I, Fazio, M.C., Pasella, D. and Piredda, R., 1997. Development of passive sampling technique for the determination of nitrogen dioxide and sulphur dioxide in ambient air. *Analytica Chemica Acta* 346, 17-134.
- De Santis, F., Dogeroglu, T., Menichelli, S., Vazzana, C., Allegrini, I., 2001. The use of a new passive sampler for ozone and nitrogen oxides monitoring in ecological effects research. In: Proceedings of the International Symposium on Passive Sampling of Gaseous Air Pollutants in Ecological Effects Research. *The Scientific World* 1, 475-482.
- Environmental Canada, 2004. National Pollutant Release Inventory.
- EPA. Nitrogen dioxide. 1998 [online] Available. www.epa.gov (December, 2007).

- Ferm, M., Rodhe,H., 1997. Measurements of air concentrations of SO₂, NO₂ and NH₂ at rural and remote sites in Asia. *Journal of Atmospheric Chemistry* 27, 17 -29.
- Ferm, M., Svanberg, P.A., 1998. Cost efficient techniques for urban and background measurements of SO₂ and NO₂. *Atmospheric Environment* 32, 1377-1381.
- Foust, R., 2007. Photochemical Smog. Chemistry and Environmental Science, Northern Arizona University.
- Gair, A.J., Penkrtt, S.A., Oyola., 1991. Development of a simple passive technique for determination of nitrogen dioxide in remote continental location. *Atmospheric Environment* 25A, 1927-1939.
- Gerboles, M., Buzica D., Amantini, L., 2005. Modification of the Palmes diffusion tube and semi-empirical modeling of the uptake rate for monitoring nitrogen dioxide. *Atmospheric Environment* 39, 2579-2592.
- Glasius, M., Morten F.C., Torben S.H. and Lohse, C., 1999. Measurement of nitrogen dioxide on Funen using diffusion tube *Atmospheric Environment* 33, 1177-1185.
- Gorecki T.and Namiesnik J., 2002. Passive sampling. *Analytical chemistry* 21, 276-291.
- Glenn D. Israel. [online] Available <http://edis.ifas.ufl.edu>. (December, 2007).
- Heal, M.R. and Cape, J.N., 1997. A numerical evaluation of chemical interferences in the measurement of ambient nitrogen dioxide by passive diffusion sampler. *Atmospheric Environment* 31, 1911-1923.
- Heal, M.R., O'Donoghue, M.A. and Cape, J.N., 1999. Overestimation of urban nitrogen dioxide by passive diffusion tubes: a comparative exposure and model study. *Atmospheric Environment* 33, 513-524.

- Krochmal, D. and Gorski, L., 1991. Determination of nitrogen dioxide in ambient air by use of a passive sampling technique and triethanol amine as absorbent. *Environmental Science and Technology* 25, 531-535.
- Krochmal, D. and Kalina, A., 1997. A method of nitrogen dioxide and sulphur dioxide determination in ambient air use of passive samplers and ion chromatography. *Atmospheric Environment* 31(20), 3473-3479.
- Krupa, S.V. and Legge, A.H., 2000. Passive sampling of ambient, gaseous air pollutants: an assessment from an ecological perspective. *Environmental Pollution* 107, 31-35.
- Khaodee, W., 2006. Development of passive sampler for determination of NO₂, SO₂ and O₃ in ambient air. M.S. Thesis. Chiang Mai University, Thailand.
- Kotchabhakdi, N., 2007. Development of passive sampling devices for indoor formaldehyde determination. M.S. Thesis. Chiang Mai University, Thailand.
- Kirby C., Fox M. and Waterhouse J., 2000. Reliability of nitrogen dioxide passive diffusion tubes for ambient measurement. *Environmental Monitoring* 2, 307-312.
- Mulik, J.D., Lewis, R.G. and McCleany, W.A., 1989. Modification of a high efficiency passive sampler to determine nitrogen dioxide or formaldehyde in air. *Analytical Chemistry* 61, 187-189.
- Murad I.H., Ngudiwaluyo S., Korenaga T. and Tanaka K., 2002. Development of passive sampler technique for ozone monitoring. *Talanta* 58, 649-659.
- Ministry of the Environment, 1999. Sampling of environmental monitoring. International Environmental Cooperation, Japan.

- NIOSH. 1998. Nitrogen dioxide. *NIOSH manual of analytical methods, Fourth Edition*
- Norfun, P., 2003. Development of test kit for chloride in water. Department of Chemistry. Chiang Mai, Thailand.
- Ozden, O. and Dogeroglu, T., 2007. Field evaluation of a tailor-made new passive sampler for the determination of NO₂ levels in ambient air. *Environmental Monitoring and Assessment*. DOI 10.1007/s10661-007-9921-x.
- Palmes, E. D., Gunnison, A. F., Dimatto, J. and Tomezyk, C., 1976. Personal sampler for nitrogen dioxide. *American Industrial Hygiene Association Journal* 37, 570-577.
- Plaisance, H., Sagnier I., Saison, J.Y., Galloo, J.C. and Guillermo, R., 2002. Performances and application of passive sampling method for simultaneous determination of nitrogen dioxide and sulfur dioxide in ambient air. *Environmental Monitoring and Assessment* 79, 301-315.
- Plasance, H., Piechocki-Minguy, A., Garcia-Fouque, S. and Galloo, J.C., 2004. Influence of meteorological factor on the NO₂ measurements by passive diffusion tube. *Atmospheric Environment* 38, 573-580.
- Pongsai J. and Detsri C., 2008. Determination of tropospheric ozone using passive sampling device. Bachelor of science degree in chemistry. Chiang Mai University.
- Pollution Control Department. 2004. Air quality. [online] Available.
http://www.pcd.go.th/info_serv/air_std.htm. (December, 2007).
- Roger M., 2003. The use of passive sampling to monitor forest exposure to O₃, NO₂ and SO₂: a review and some case studies. *Environmental Pollution* 126, 301-311.

Ruewongsa, T. and Panitchapen, P., 1999. Test kit for determination of iodate salt in Thailand.

Sernfeld, J. H., 1975. Air pollution; physical and chemical fundamentals. McGraw-Hill, New York.

Tang, Y.S., Cape, J.N. and Sutton, M.A., 2001. Development and type of passive sampler for monitoring atmospheric NO₂ and NH₃ concentration. In: Proceedings of the international symposium on passive sampling of gaseous air pollutants in ecological effects research. *The Scientific World* 1, 513-529.

Tate, P., 2002. Ammonia sampling using Ogawa passive sampler. M.S. Thesis. University of Florida, USA.

Taiz Lincoln and Zeiger Eduardo. 2007. Principles of Spectrophotometry [online] Available. <http://4e.plantphys.net/article.php?ch=7&id=66> (December, 2007).

Test kit. [online] Available. http://www.southshoreunitepools.com/resources/pool_glossary2.htm (December, 2007).

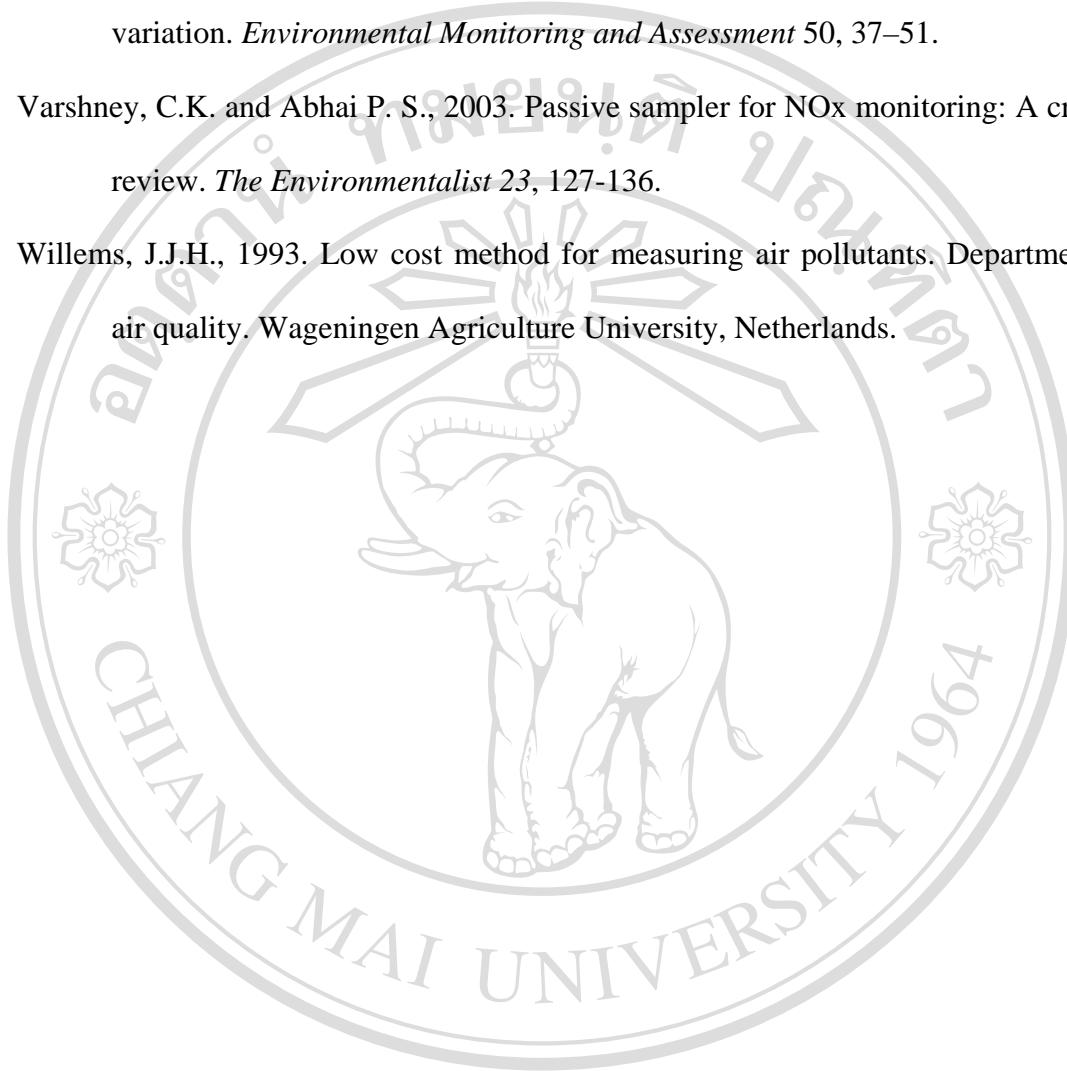
Test kit. [online] Available. <http://www.clu-in.org/char/technologies/color.cfm>. (May, 2008).

Oxford University. 2006. Chemical Safety information-glossary [online] Available. <http://msds.chem.ox.ac.uk/glossary/GLOSSARY.html> (January, 2008).

Ultraviolet-visible spectrum. [online] Available. http://en.Wikopedia.org/wiki/Ultraviolet-Visible_spectroscopy. (December, 2007).

Yanagisawa, Y., Hemphill, C.P., Spengler, J.D. and Ryan, P.B., 1986. Wind effect on absorption rate of NO₂ passive sampler. In: *Proceedings of air pollution associate 79th*, 1-13.

- Van Reeuwijk, H., Fischer, P.H., Harssema, H., Briggs, D.J., Smallbone, K. and Lebret, E., 1998. Field comparison of two NO₂ samplers to assess spatial variation. *Environmental Monitoring and Assessment* 50, 37–51.
- Varshney, C.K. and Abhai P. S., 2003. Passive sampler for NOx monitoring: A critical review. *The Environmentalist* 23, 127-136.
- Willems, J.J.H., 1993. Low cost method for measuring air pollutants. Department of air quality. Wageningen Agriculture University, Netherlands.



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่
Copyright[©] by Chiang Mai University
All rights reserved