

I Profile

Dr. Yoshiharu Iwasaki

Born on December 19, 1944



Most recently acquired academic qualification:

Tokyo Institute of Technology, (M.Sc.)

Career:

- 1970 Tokyo Metropolitan Research Institute for Environmental Protection, Researcher
- 1986 Tokyo Metropolitan Research Institute for Environmental Protection, Chief Researcher
- 1995 Tokyo Metropolitan Research Institute for Environmental Protection, Director
- 2002 Tokyo Metropolitan Research Institute for Environmental Protection, Chief Director

Major Committee Membership, etc.:

- Japan Society for Atmospheric Environment, Standing Director
- Tokyo Metropolitan Institute of Technology, Guest Professor
- Tokyo University of Science, Part-time Lecturer

Other Distinctions (Awards, etc.):

- Winner of the Tokyo Metropolitan Governor Prize (1984, 1997)
- Winner of the Japan Society for Atmospheric Environment Prize

Mr. Kenji Kamigawara

Born on July 17, 1960



Most recently acquired academic qualification:

Bachelor, Faculty of Law, Tohoku University, 1984

Career:

Entered to the Environment Agency, Government of Japan, 1984

Seconded to the Global Environment Division, the Ministry of Foreign Affairs,

Seconded to the Japanese Mission in Geneva to the International Organizations,

Appointed to the Secretary to the Minister of the Environment,

Appointed to the Chief of Noise and Odor Division(present)

Major Committee Membership:

Lecturer(part-time), Graduate School on Human-Environmental Study,
Kyoto University, FY2002

Lecturer(part-time), Faculty of Law, Waseda University, FY2003

Major Publications:

The Basel Convention and its Conference of the Parties-Beyond Confrontation
and Confusion, Social System Study, No5, Faculty of Integrated Human Study,
Kyoto University, 2002



Mr. Anton Philip van Harreveld

Most recently acquired academic qualification:

MSc

Career:

Ton van Harreveld is founder and chairman of the OdourNet group. His operational activities include consultancy, international marketing, R&D supervision and product development.

OdourNet specialises in all aspects of environmental odour annoyance and conducts many hundreds of odour related surveys each year. Several thousands of odour samples are collected and analysed in two accredited OdourNet laboratories to provide supporting data. OdourNet employs a staff of about 30 in four European countries.

OdourNet develops and markets instruments and associated software for odour sampling and measurement. Olfaktomat-n olfactometers are installed in laboratories worldwide.

The roots of OdourNet roots were established in 1980, when van Harreveld established Project Research Amsterdam BV, environmental consultants specialising in characterisation and abatement of odours. The company has since developed from a one man start-up into a leading firm of specialist consultants on odour issues, serving industry and regulators alike.

In the process, van Harreveld became closely associated with efforts to develop standardised methods for odour impact assessment. From 1988 onwards he

has been an active member of a working group to standardise olfactometry in Holland, under the auspices of the Netherlands Normalisation Institute (NNI). In 1993 he was invited to act as convenor for the working group that is to draft a European CEN standard on determination of odours using dynamic olfactometry CEN/TC264/WG2 'Odours'. In 1994 he joined a NNI working group on sampling of odours.

The involvement in standardisation was matched by R&D within the company, that has developed a strong position as supplier of odour sampling equipment and olfactometers with related software.

In 1994 Ton van Harreveld founded a sister company in England, Project Research Environmental Consultants Ltd., renamed in April 2000 to OdourNet UK Ltd. A joint laboratory was founded in Australia at that same time. These were the first steps towards establishing the OdourNet group of companies, that now operate four offices: PRA OdourNet BV (Amsterdam, Holland), OdourNet UK Ltd. (Bradford-on-Avon, UK), Project Research Gent NV (Gent, Belgium) and OdourNet SL (Barcelona, Spain).

As a senior consultant he recently completed major scientific review reports to support policy development for livestock odours by the Irish EPA and general odour guidelines for the Environment Agency (UK). Previously he headed a team to prepare a feasibility study for developing a method for odour annoyance potential measurement for the Dutch government.

Ton van Harreveld took an MSc in environmental engineering in 1979 at the Agricultural University of Wageningen, The Netherlands, with Air Quality and Environmental Health as main subjects. In preparation for his thesis he worked abroad at the Ministry of the Environment in Mexico City and at the Environmental Protection Agency in the United States.

Ton and his family now live in Barcelona, Spain.

Major Committee Memberships:

- Technical Committee on Olfactometry of the Netherlands Calibration Organisation NKO.
- CEN standardisation working group TC264/WG2 'Odours' (convenor)
- Netherlands Normalisation Institute working groups (Olfactometry, Sampling of Odours)
- Netherlands 'Platform Odour', a section of the Netherlands Association of Environmental Scientists, where industry, consultants, and regulators discuss

implications and development of odour policies, with a focus on differentiating criteria based on type of odour (vice-chairman)

- US Air and Waste Management Association committee EE-6 on odours (member)
- Source Testing Association (UK, member)
- Verein Deutsche Ingenieure (member)
- IWA International Water Association (member)
- Member of the scientific committee of the IWA/WEF conference on odours in Singapore, September 2003
- Chairman of the planned European conference on Odour Management, organised in Köln, Germany, by Verein Deutsche Ingenieure (VDI), November 2004

Major Publications:

- EN13725: 2003, *Odour concentration measurement by dynamic olfactometry*, April 2003 (contributed as convenor). www.cenorm.be
- Van Harreveld, A. Ph., (2003) *Odour Concentration Decay and Stability in Gas Sampling Bags*, J. Air & Waste Manage. Assoc. vol. 53 (1), 51-61, ISSN 1047-3289, January 2003
- *Assessment of community response to odorous emissions.*, R&D Technical Report P4-095, Environment Agency, WRc Document Distribution Centre, United Kingdom, 2002. www.environment-agency.gov.uk
- Van Doorn, Reind, Ruijten, Marc, Van Harreveld, A.Ph., *Guidance for the Application of Odor in the Derivation of AEGL-1 4*, version 02/06/2001, Public Health Service of Rotterdam, the Netherlands.
- Van Harreveld, AP, Jones, N, Stoaling, M, (2001) *Odour Impacts and Odour Emission Control Measures for Intensive Agriculture. Part A: Odour annoyance assessment and criteria for intensive livestock production in Ireland.*, Environmental Monitoring, R&D Sub-programme of the Environmental Services Operational Programme 1994-1999, Environmental Protection Agency, Report 14, ISBN 1-84095-075-7, 2001. www.epa.ie
- Bongers, M.E, Vossen, FHJ, van Harreveld, AP, *Geurhinderonderzoek stallen intensieve veehouderij (translation: Survey of odour nuisance in the vicinity of intensive livestock housing)*, in Dutch, Ministry of Planning, Public Housing and the Environment, Distribution centre, document number 22317, March 2001.
- Van Harreveld, A.P., *From odorant formation to odour nuisance: new definitions*

for discussing a complex process, Water Science & Technology Vol 44 No 9 pp 9-15, ISSN: 0273-1223, 2001

- *Odour control in wastewater treatment - a technical reference document*, UK Water Industry Research Ltd, London, Technical reference document 01/WW13/01/3,2000 (major contributor) www.ukwir.org
- Van Harreveld, APh, Schakel, A., Valk, CJ, Vreeburg, S, *Feasibility study for the development of a standardised method for assessment of odour nuisance and odour annoyance potential*, (in Dutch) Project PD 207 Action programme Standardisation and Validation of Environmental Assessment Methods, Project Research Amsterdam BV, December 1999.
- Van Harreveld, A. Ph., (1998) *A review of 20 years of standardization of odour concentration measurement by dynamic olfactometry in Europe*, J. Air & Waste Manage. Assoc. 49, 705-715, ISSN 1047-3289, June 1998
- Van Harreveld, A.Ph., *Interlaboratory Comparison of Olfactometry. Validation of draft CEN standard 'Odour concentration measurement using dynamic olfactometry*, CEN TC264/WG2 'Olfactometry' document N220, OdourNet UK Ltd, 1996.
- Van Harreveld, A. Ph., Heeres, P., (1995) *Quality control and optimisation of dynamic olfactometry using n-butanol as a standard reference odorant*, STAUB -Reinhaltung der Luft 55 pp 45-50, Springer Verlag.
- Van Harreveld, A.P., (1991) *Introduction and Related Practical Aspects of Odour Regulations in the Netherlands*., in: Derenzo and Gnyp, TR18, Recent Developments and Current Practices in Odour Regulations, Controls and Technology, AWMA, ISBN 0-923204-0, 1991

Presentations:

- Van Harreveld, A. Ph, *Dynamic olfactometry - fundamentals, developments and wastewater applications*, keynote paper, in: Proceedings of the 6th IWA conference on off-flavours in the aquatic environment, International Water Association, Barcelona, October 7-10, 2002
- Van Harreveld, A. Ph, *Chemicals as odour predictors: what causes the odour deficit*, in: Proceedings of the CIWEM conference 'Odours – what a nuisance', Hatfield, UK, CIWEM, November 7th, 2002.
- Van Harreveld, A. Ph, *Scent - Smell - Stink - Stech: How to draw the nuisance line*, keynote paper, in: Proceedings of Enviro 2002, April 7-12, Melbourne
- Van Harreveld, A. P., *From odorant formation to nuisance: new definitions for*

- discussing a complex process*, in: Proceedings of the 1st IWA International Conference on Odour and VOCs: Measurement, Regulation and Control Techniques,, University of New South Wales, March 2001.
- Bongers, M.E., Van Harreveld, A.P, Jones, N,, *Recent pig odour policy reviews in the Netherlands and in Ireland*, in: Proceedings of the 1st IWA International Conference on Odour and VOCs: Measurement, Regulation and Control Techniques,, University of New South Wales, March 2001.
 - Van Harreveld, A.P., *Current status of introduction and implementation of CEN standard EN13725 Odour Concentration Measurement by dynamic olfactometry*, In: Proceedings of the 1st IWA International Conference on Odour and VOCs: Measurement, Regulation and Control Techniques,, University of New South Wales, March 2001.
 - Van Harreveld, A. Ph., *Odour measurement as a tool to support industry in the art of being good neighbours and protect long-term interest in the process*, Presented at the Canadian Paper and Pulp Association 1995 Environment Conference, Halifax, Nova Scotia, October 1995
 - Van Harreveld, A. Ph., (1995) *Main features of the final draft European Standard 'Measurement of odour concentration using dynamic olfactometry'*, in: Proceedings of the Specialty Conference: Odours: Indoor and Environmental Air, organised by Air and Waste Management Association, Sept.1995
 - Schulz T, van Harreveld Aph, Kaye R, *Olfactometry Art to Science*, Centre for Waste Water Treatment, 12th CASANZ Conference, Perth, October 1994.
 - Van Harreveld, A. Ph., Klarenbeek, J.V., *On the regulations, measurement and abatement of odours emanating from livestock housing in the Netherlands*, in: *new knowledge in Livestock Odor*, Proceedings of the International Livestock Odor Conference 1995, pp.16-21, Iowa, USA, Iowa State University, College of Agriculture, Ames
 - Van Harreveld, A. Ph., Schulz T, Seminar - *Environmental odours- detection, minimisation and control.*, the Munro centre for civil and environmental engineering. The University of New South Wales, July 1994
 - Harreveld, A. van, Clarkson, C. *Techniques and Methodology in Odour Measurement*, paper presented at the First Irish Conference on the Atmospheric Environment, Cork, February 1992