

CURRICULUM VITAE

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Organization: Laboratory of Soil Physics and Soil Hydrology
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Education:

1983-1987 Undergraduate, Faculty of Agriculture, The University of Tokyo.
1987-1989 Graduate School of Agricultural Science, The University of Tokyo,
1989-1991 PhD candidate at Graduate School of Agricultural Science, The University of Tokyo.

Research and professional experience:

1991.4-1991.7: Fellowships of the Japan Society for the Promotion of Science for Japanese Junior Scientists.
1991.8-1997.8: Assistant at Laboratory of Soil Physics and Soil Hydrology, Department of Agricultural Engineering, The University of Tokyo
(1996.5- 1997.4 Visiting Research Scholar in USDA-ARS National Soil Erosion Research Laboratory, Purdue University, West Lafayette, IN USA)
1997.9-1999.3: Assistant Professor of Lab. of Land Use, Department of Eco-region science, School of Agriculture, Tokyo University of Agriculture and Technology
1999.4-2006.7: Associate professor of Department of International Environmental and Agricultural Sciences, Tokyo University of Agriculture and Technology (Soil Physics, Soil & Environmental Conservation and Remediation)
2006.8 to 2015.3: Associate Professor at Lab. of Soil Physics and Soil Hydrology, Department of Biological and Environmental Engineering, The University of Tokyo.
2015.5 till present: Professor at Lab. of Soil Physics and Soil Hydrology, Department of Biological and Environmental Engineering, The University of Tokyo.

Membership of Academic Society

The Japanese Society of Irrigation, Drainage and Reclamation Engineering.(JSIDRE)
Japan Society of Soil Physics
Japan Society of Hydrology and Water Resources
Soil Science Society of America
Japan Geotechnical Society
Japanese Society of Soil Science and Plant Nutrition
The Japanese Association for Arid Land Studies (fellow for 2008-2009)

2009-2011 Editor of Journal of Soil Physics, Japan

2011.10- 2015.9 Editor of Soil Science and Plant Nutrition (Taylor and Francis)

2016.6-2018.5 Editor in Chief, Irrigation, Drainage and Rural Engineering Journal (Japanese)

2016.6-2018.5 Board member of Japan, Society of Irrigation, Drainage and Rural Engineering

Publications in English

1. Properties of surface crusts of an Andisol and their effects on soil-hydrological processes Taku Nishimura, Masashi Nakano, Tsuyoshi Miyazaki CATENA SUPPLEMENTS 24 pp.17-28(1993)
2. Changes in soil physical properties due to surface crust formation under simulated rainfall. Nishimura,T., M. Nakano, T. Miyazaki In International Association of Hydrological Science Publication 212 (Exchange Processes at the Land Surface for a Range of Space and Time Scales, ed. H.J.Bolle, R.A.Feddes, and J.D.Kalma), pp.253-257, (1993)

3. Effects of initial water content on formation and properties of a surface crust of the Maaji soil, Nishimura, T., M. Nakano, and T. Miyazaki, in *Sealing, crusting and hardsetting soils: Productivity and conservation*. Ed. H.B.So, G.D.Smith, S.R.Raine, B.M.Schafer and R.J.Loch, Australian Society of Soil Science Inc.. pp.151-156 (1995)
4. Changes in infiltration and ion exchange subsequent to gypsum application to a Japanese acid soil, Nishimura, T. *Trans. Jpn. Soc. of Irrig. Drain. and Reclamation Engg.*, 184, pp.167-173 (1996)
5. Effects of clod size, raindrop size and initial moisture conditions on surface sealing of a Japanese acid soil, *Trans. Jpn. Soc. of Irrig. Drain. and Reclamation Engg.* 199pp. 17-22 (1999)
6. Effects of gypsum application on dispersion of an acid Kunigami mahji soil, Taku Nishimura, M.Nakano, T. Miyazaki: *J. of the Jpn. Soc. of Soil Physics*, 81 pp.15-21 (1999)
7. Critical coagulation concentration and permeability of the Fukaya clayey soils, T. Nishimura, K. Nakano, M. Kato, and T. Miyazaki, *Clay Science for Engineering* ed. K.Adachi & M.Fukue pp.291-295, Balkema Publ. (2001)
8. Measurement of near saturated hydraulic conductivity in situ, T. Nishimura, U. Irshad, M. Kato, and M. Inoue, *Proceedings 2nd Asian Conference on Unsaturated soils* pp.375-378 (2003)
9. Estimation of Dry Bulk Density of Soil Using Amplitude Domain Reflectometry Probe, Krissandi WIJAYA, Taku NISHIMURA, and Makoto KATO, *J. of the Jpn. Soc. of Soil Physics*, 95, pp.63-73 (2003)
10. Field Estimation of Soil Dry Bulk Density Using Amplitude Domain Reflectometry Data, Krissandi WIJAYA, Taku NISHIMURA, Makoto KATO and Masanobu NAKAGAWA, *J. of the Jpn. Soc. of Soil Physics*, 97 pp.3-12 (2004)
11. Change in share characteristics of Loess soil by applying Irrigation, Ueno, M., T. Nishimura, and M. Kato, *J. of Arid Land Studies*, 14S, 215-218 (2004)
12. The effect of Entrapped Air on the Quasi-Saturated Soil Hydraulic Conductivity and Comparison to the Unsaturated Hydraulic Conductivity. Sakaguchi, A. T. Nishimura, and M. Kato, *Vadose Zone J.* 4, 139-144 (2004)
13. Effect of gypsum and polyacrylamide application on erodibility of an acid Kunigami mahji soil, Nishimura, T. KATO, M., YAMAMOTO, and S. Suzuki, *Soil Sci. and Plant Nutr.* 51(5) pp.313-322 (2005)
14. Tournebize, Julien H. Watanabe, K. Takagi, T. Nishimura, The development of a coupled model (PCPF-SWMS) to simulate water flow and pollutant transport in Japanese paddy fields, *Paddy Water Environ.* , 4, pp. 39-51, (2006)
15. Nishimura, T., H. Shirato, M. Hayashi and M. Kato, Effect of Dispersivity of Filling Material on Performance of Contaminant Barrier, *J. of ASTM International*, 3(6),pp.296-303 (2006)
16. Hou, H., S. Zhou, M. Hosomi, K. Toyota, K. Yosimura, Y. Mutou, T. Nisimura, M. Takayanagi, and T. Motobayashi. Ammonia emissions from biogas slurry and chemical fertilizer applied to flooded forage rice, *Water, Air & Soil pollution*, (2007)
17. Ohnishi, T., M. Kato and T. Nishimura, Evaluating Influence of Different Cover Materials on Runoff and Sediment Loss from Bare Upland Soil using Laboratory Rainfall Simulator, *J. of the Jpn. Soc. of Soil Physics* 108, 53-66, (2008)
18. Nagasawa, K., Zhang J., Nishimura T., Saito H., and Kato M., Impact of Pressure Heads Applied to Buried Porous Bottles on Water Supply Characteristics for Subsurface Irrigation, *J. of Arid Land Studies*, 18(1):11-20 (2008)
19. Wilfredo A. Dumale Jr., Tsuyoshi Miyazaki, T. Nishimura, and Katsutoshi Seki, CO₂ evolution and short-term carbon turnover in stable soil organic carbon from soils applied with fresh organic matter, *GEOPHYSICAL RESEARCH LETTERS*, VOL. 35, LXXXXX, doi:10.1029/2008GL036436, (2008)
20. Yamamoto, T., Y. Shimura, T. Nishimura, H. Andry, S. Moritani, and A. Al-Busaidi, Evaluation of powdered polyacrylamide application along with source of electrolytes in controlling sodic soil erosion, *J. Jpn. Soc. Soil Phys.* 110, 53-66 (2008)
21. Krissandi Wijaya, T. Nishimura, Budi Indra Setiawan, S. K. Saptomo, Spatial Variability of Soil Saturated Hydraulic Conductivity in Paddy Field in Accordance to Subsurface

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22. Asada, K. K. Toyota, T. Nishimura, J-I. Ikeda, and K. Hori. Accumulation and mobility of zinc in soil amended with efferent levels of pig-manure compost, *J. of Environmental Science and Health Part B*, 45, 1-8 (2010)
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 26. Nishimura, T., N. Kamachi, H. Imoto, M. Mizoguchi, and T. Miyazaki, Prefreeze soil moisture and compaction affect water erosion in partially melted frozen Andisols, *Soil Sci.Soc. Am. J.* 75 691-698 (2011)
 27. Asada, K., T. Nishimura; H. Saito; The effects of subsoil hardpan on the leaching of zinc and copper in soils amended with swine-manure, *J. of Hazardous, Toxic, and Radioactive Waste(ASCE)*, 15(4) 259-265 (2011)
 28. Kato C., T. Nishimura, H. Imoto and T. Miyazaki, Predicting soil moisture and temperature of Andisols under a monsoon climate in Japan, *Vadose Zone J.* 10, 541-551 (2011)
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42. Kato C. and T. Nishimura, Predicting soil moisture condition in arbitrary agricultural lands using the digital soil map and soil physical properties database, *Paddy and Water Environment*, DOI: 10.1007/s10333-016-0537-z (2016)