

## NOBUHITO OHTE



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### **a. Professional Preparation**

Kyoto University	Forestry	B.S., 1987
Kyoto University	Forest Science	M.S., 1989
Kyoto University	Forest Science (Hydrology)	Ph.D., 1992

### **b. Appointments**

Associate Professor, Department of Forest Science, The University of Tokyo, 2006-present  
Associate Professor, Division of Environmental Science and Technology, Kyoto University, 1997-2006  
Lecturer, Division of Environmental Science and Technology, Kyoto University, 1995-1997  
Assistant Professor, Department of Forestry, Kyoto University, 1991-1995

### **c. Publications**

#### *(i) Original articles:*

Tokuchi, N., S. Yoneda, N. Ohte, N. Usui, K. Koba, M. Kuroiwa, H. Toda, and Y. Suwa. 2013. Seasonal changes and controlling factors of gross N transformation in an evergreen plantation forest in central Japan. *Journal of Forest Research*:1-9.

Egusa, T., N. Ohte, T. Oda, and M. Suzuki. 2013. Relationship between catchment scale and the spatial variability of stream discharge and chemistry in a catchment with multiple geologies. *Hydrological Research Letters* 7:12-17.

Tokuchi, N., N. Ohte, K. i. Osaka, and M. Katsuyama. 2012. Separate estimation of N export into baseline N leakage without disturbance and N loss due to insect defoliation in a pine forest watershed in central Japan. *Environmental Monitoring and Assessment (Online first)*:1-9.

Sato, T., T. Egusa, K. Fukushima, T. Oda, N. Ohte, N. Tokuchi, K. Watanabe, M. Kanaiwa, I. Murakami, and K. D. Lafferty. 2012. Nematomorph parasites indirectly alter the food

web and ecosystem function of streams through behavioural manipulation of their cricket hosts. *Ecology Letters* 15:786-793.

- Ohte, N., M. Murakami, T. Suzuki, K. Iseda, K. Tanoi, and N. Ishii. 2012. Diffusion and export dynamics of <sup>137</sup>Cs deposited on the forested area in Fukushima after the nuclear power plant accident in March 2011: Preliminary results. Pages 25-32 Proceedings of the International Symposium on Environmental monitoring and dose estimation of residents after accident of TEPCO's Fukushima Daiichi Nuclear Power Stations, Shiran Hall, Kyoto, Japan, December 14, 2012. KUR Research Program for Scientific Basis of Nuclear Safety.
- Ohte, N. 2012. Tracing sources and pathways of dissolved nitrate in forest and river ecosystems using high-resolution isotopic techniques: a review. *Ecological Research (Online first)*:1-9.
- Ohte, N. 2012. Implications of seasonal variation in nitrate export from forested ecosystems: a review from the hydrological perspective of ecosystem dynamics. *Ecological Research* 27:657-665.
- Oda, T., N. Ohte, and M. Suzuki. 2011. Importance of frequent storm flow data for evaluating changes in stream water chemistry following clear-cutting in Japanese headwater catchments. *Forest Ecology and Management* 262:1305-1317.
- Itoh, M., Y. Takemon, A. Makabe, C. Yoshimizu, A. Kohzu, N. Ohte, D. Tumurskh, I. Tayasu, N. Yoshida, and T. Nagata. 2011. Evaluation of wastewater nitrogen transformation in a natural wetland (Ulaanbaatar, Mongolia) using dual-isotope analysis of nitrate. *Science of The Total Environment* 409:1530-1538.
- Fujimoto, M., N. Ohte, and M. Tani. 2011. Effects of hillslope topography on runoff response in a small catchment in the Fudoji Experimental Watershed, central Japan. *Hydrological Processes* 25:1874-1886.
- Tobari, K. Koba, K. Fukushima, N. Tokuchi, N. Ohte, R. Tateno, S. Toyoda, T. Yoshioka, and N. Yoshida. 2010. Contribution of atmospheric nitrate to stream-water nitrate in Japanese coniferous forests revealed by the oxygen isotope ratio of nitrate. *Rapid Communications in Mass Spectrometry* 24:1281-1286.
- Osaka, K., N. Ohte, K. Koba, C. Yoshimizu, M. Katsuyama, M. Tani, I. Tayasu, and T. Nagata. 2010. Hydrological influences on spatiotemporal variations of d<sup>15</sup>N and d<sup>18</sup>O of nitrate in a forested headwater catchment in central Japan: Denitrification plays a critical role in groundwater. *Journal of Geophysical Research* 115:G02021.
- Ohte, N., N. Tokuchi, and M. Fujimoto. 2010. Seasonal patterns of nitrate discharge from forested catchments: Information derived from Japanese case studies. *Geography Compass* 4:1358-1376.

- Ohte, N., I. Tayasu, A. Kohzu, C. Yoshimizu, K. i. Osaka, A. Makabe, K. Koba, N. Yoshida, and T. Nagata. 2010. Spatial distribution of nitrate sources of rivers in the Lake Biwa watershed, Japan: Controlling factors revealed by nitrogen and oxygen isotope values. *Water Resour. Res.* 46:W07505.
- Tateno, R., K. Fukushima, R. Fujimaki, T. Shimamura, M. Ohgi, H. Arai, N. Ohte, N. Tokuchi, and T. Yoshioka. 2009. Biomass allocation and nitrogen limitation in a *Cryptomeria japonica* plantation chronosequence. *Journal of Forest Research* 14:276-285.
- Koba, K., K. Osaka, Y. Tobari, S. Toyoda, N. Ohte, M. Katsuyama, N. Suzuki, M. Itoh, H. Yamagishi, M. Kawasaki, S. J. Kim, N. Yoshida, and T. Nakajima. 2009. Biogeochemistry of nitrous oxide in groundwater in a forested ecosystem elucidated by nitrous oxide isotopomer measurements. *Geochimica et Cosmochimica Acta* 73:3115-3133.
- Katsuyama, M., H. Shibata, T. Yoshioka, T. Yoshida, A. Ogawa, and N. Ohte. 2009. Applications of a hydro-biogeochemical model and long-term simulations of the effects of logging in forested watersheds. *Sustainability Science* 4:179-188, doi:110.1007/s11625-11009-10079-z.
- Katsuyama, M., N. Kabeya, and N. Ohte. 2009. Elucidation of the relationship between geographic and time sources of stream water using a tracer approach in a headwater catchment. *Water Resour. Res.* 45:W06414, doi:06410.01029/02008WR007458.
- Itoh, M., N. Ohte, and K. Koba. 2009. Methane flux characteristics in forest soils under an East Asian monsoon climate. *Soil Biology and Biochemistry* 41:388-395.
- Chua, F. L. A., M. Suzuki, N. Ohte, N. Hotta, and T. Kume. 2009. Evapotranspiration patterns for tropical rainforests in southeast Asia: A model performance examination of the Biome-BGC Model. *Bulletin of Tokyo University Forests* 120:29-44.
- Asano, Y., T. Uchida, Y. Mimasu, and N. Ohte. 2009. Spatial patterns of stream solute concentrations in a steep mountainous catchment with a homogeneous landscape. *Water Resour. Res.* 45:W10432.
- Tanio, Y., N. Ohte, M. Fujimoto, and R. Sheibly. 2008. Nitrate and phosphate uptake in a temperate forest stream in central Japan. Pages 83-89 in M. Taniguchi, W. C. Burnett, Y. Fukushima, M. Haigh, and Y. Umezawa, editors. *From Headwaters to the Ocean: Hydrological Changes and Watershed Management*. Taylor & Francis Group, London.
- Sebestyen, S. D., E. W. Boyer, J. B. Shanley, C. Kendall, D. H. Doctor, G. R. Aiken, and N. Ohte. 2008. Sources, transformations, and hydrological processes that control stream nitrate and dissolved organic matter concentrations during snowmelt in an upland forest. *Water Resour. Res.* 44.

- Oda, T., Y. Asano, N. Ohte, and M. Suzuki. 2008. The effect of antecedent moisture condition on storm flow water sources in young forest headwater catchment. . Pages 57-62 in M. Taniguchi, W. C. Burnett, Y. Fukushima, M. Haigh, and Y. Umezawa, editors. From Headwaters to the Ocean: Hydrological Changes and Watershed Management. Taylor & Francis Group, London.
- Kawasaki, M., N. Ohte, N. Kabeya, and M. Katsuyama. 2008. Hydrological control of dissolved organic carbon dynamics in a forested headwater catchment, Kiryu Experimental Watershed, Japan. *Hydrological Processes* 22:429-442.
- Katsuyama, C., N. Kondo, Y. Suwa, T. Yamagishi, M. Itoh, N. Ohte, H. Kimura, K. Nagaosa, and K. Kato. 2008. Denitrification activity and relevant bacteria revealed by nitrite reductase gene fragments in soil of temperate mixed forest. *Microbes and Environments* 23:337-345.
- Itoh, M., N. Ohte, K. Koba, A. Sugimoto, and M. Tani. 2008. Analysis of methane production pathways in a riparian wetland of a temperate forest catchment, using  $\delta^{13}\text{C}$  of porewater  $\text{CH}_4$  and  $\text{CO}_2$ . *Journal of Geophysical Research* 113:G03005, doi:03010.01029/02007JG000647.
- Fujimoto, M., N. Ohte, and M. Tani. 2008. Effects of hillslope topography on hydrological responses in a weathered granite mountain, Japan: comparison of the runoff response between the valley-head and the side slope. *Hydrological Processes* 22:2581-2594.
- Doctor, D. H., C. Kendall, S. D. Sebestyen, J. B. Shanley, N. Ohte, and E. W. Boyer. 2008. Carbon isotope fractionation of dissolved inorganic carbon (DIC) due to outgassing of carbon dioxide from a headwater stream. *Hydrological Processes* 22:2410-2423.
- Shimamura, T., K. i. Osaka, M. Itoh, N. Ohte, and Y. Takemon. 2007. Spatial distribution of nitrate in Mizoro-ga-ike, a pond with floating mat bog. *Advances in Geosciences* 6:129-137.
- Ohte, N., R. A. Dahlgren, S. R. Silva, C. Kendall, C. R. Kratzer, and D. H. Doctor. 2007. Sources and transport of algae and nutrients in a Californian river in a semi-arid climate. *Freshwater Biology* 52:2476-2493 doi:10.1111/j.1365-2427.2007.01849.x.
- Kabeya, N., M. Katsuyama, M. Kawasaki, N. Ohte, and A. Sugimoto. 2007. Estimation of mean residence times of subsurface waters using seasonal variation in deuterium excess in a small headwater catchment in Japan. *Hydrological Processes* 21:308-322.
- Itoh, M., N. Ohte, K. Koba, M. Katsuyama, K. Hayamizu, and M. Tani. 2007. Hydrologic effects on methane dynamics in riparian wetlands in a temperate forest catchment. *Journal of Geophysical Research* 112:G01019, doi:10.1029/2006JG000240.
- Takanashi, S., Y. Kosugi, N. Matsuo, M. Tani, and N. Ohte. 2006. Patchy stomatal behavior in broad-leaved trees grown in different habitats. *Tree Physiol* 26:1565-1578.

- Osaka, K., N. Ohte, K. Koba, M. Katsuyama, and T. Nakajima. 2006. Hydrologic controls on nitrous oxide production and consumption in a forested headwater catchment in central Japan. *Journal of Geophysical Research* 111:G01013, doi:01010.01029/02005 JG000026.
- Ohte, N., N. Tokuchi, and S. Hobara. 2006. Impacts of forest defoliation by pine wilt diseases on biogeochemical cycling and streamwater chemistry in a headwater catchment in central Japan. Pages 137-142 in N. Park, editor. *Advances in Geosciences: Hydrological Sciences*, AOGS (Asia Oceania Geosciences Society) publication. World Scientific, Singapore.
- Kosugi, Y., H. Tanaka, S. Takanashi, N. Matsuo, N. Ohte, S. Shibata, and M. Tani. 2005. Three years of carbon and energy fluxes from Japanese evergreen broad-leaved forest. *Agricultural and Forest Meteorology* 132:329-343.
- Kawasaki, M., N. Ohte, and M. Katsuyama. 2005. Biogeochemical and hydrological controls on carbon export from a forested catchment in central Japan. *Ecological Research* 20:347-358.
- Katsuyama, M., N. Ohte, and N. Kabeya. 2005. Effects of bedrock permeability on hillslope and riparian groundwater dynamics in a weathered granite catchment. *Water Resources Research* 41:W01010, doi:01010.01029/ 02004WR003275.
- Yoshimura, K., T. Oki, N. Ohte, and M. Koike. 2004. Development and verification of a vertical integrated two dimensional water isotope circulation model. *Journal of Hydroscience and Hydraulic Engineering* 21:25-35.
- Yoshimura, K., T. Oki, N. Ohte, and S. Kanae. 2004. Colored moisture analysis estimates of variations in 1998 Asian monsoon water sources. *Journal of Meteorological Society of Japan* 82:1315-1329
- Tokuchi, N., N. Ohte, S. Hobara, S. J. Kim, and K. Masanori. 2004. Changes in biogeochemical cycling following forest defoliation by pine wilt disease in Kiryu experimental catchment in Japan. *Hydrological Processes* 18:2727-2736.
- Ohte, N., S. D. Sebestyen, J. B. Shanley, D. H. Doctor, C. Kendall, S. D. Wankel, and E. W. Boyer. 2004. Tracing sources of nitrate in snowmelt runoff using a high-resolution isotopic technique. *Geophysical Research Letters* 31:L21506, doi:21510.21029/ 22004GL020908.
- Asano, Y., N. Ohte, and T. Uchida. 2004. Sources of weathering-derived solutes in two granitic catchments with contrasting forest growth. *Hydrological Processes* 18:651-666.
- Yoshimura, K., T. Oki, N. Ohte, and S. Kanae. 2003. A quantitative analysis of short-term  $^{18}\text{O}$  variability with a Rayleigh-type isotope circulation model. *Journal of Geophysical Research* 108:4647, doi:4610.1029/ 2003JD003477.

- Uchida, T., Y. Asano, N. Ohte, and T. Mizuyama. 2003. Seepage area and rate of bedrock groundwater discharge at a granitic unchanneled hillslope. *Water Resources Research* 39:1018, doi:10.1029/2002WR001298.
- Uchida, T., Y. Asano, and N. Ohte. 2003. Analysis of flowpath dynamics in a steep unchanneled hollow in the Tanakami Mountains of Japan. *Hydrological Processes* 17:417-430.
- Ohte, N., N. Tokuchi, M. Katsuyama, S. Hobara, Y. Asano, and K. Koba. 2003. Episodic increases in nitrate concentrations in streamwater due to the partial dieback of a pine forest in Japan: Runoff generation processes control seasonality. *Hydrological Processes* 17:237-249.
- Ohte, N., K. Koba, K. Yoshikawa, A. Sugimoto, N. Matsuo, N. Kabeya, and L. Wang. 2003. Water utilization of natural and planted trees in the semi-arid desert of Inner Mongolia, China. *Ecological Applications* 13:337-351.
- Kim, S., N. Ohte, M. Kawasaki, M. Katsuyama, N. Tokuchi, and S. Hobara. 2003. Interactive responses of dissolved sulfate and nitrate to disturbance associated with pine wilt disease in a temperate forest. *Soil Science and Plant Nutrition* 49:539-550.
- Asano, Y., T. Uchida, and N. Ohte. 2003. Hydrologic and geochemical influences on the dissolved silica concentration in natural water in a steep headwater catchment. *Geochimica et Cosmochimica Acta* 67:1973-1989.
- Toda, M., K. Nishida, N. Ohte, M. Tani, and K. Musiake. 2002. Observation of energy fluxes and evapotranspiration over terrestrial complex land covers in the tropical monsoon environment. *Journal of the Meteorological Society of Japan* 80:465-484.
- Katsuyama, M. and N. Ohte. 2002. Determining the sources of stormflow from the fluorescence properties of dissolved organic carbon in a forested headwater catchment. *Journal of Hydrology* 268:192-202.
- Asano, Y., T. Uchida, and N. Ohte. 2002. Residence times and flow paths of water in steep unchanneled catchments, Tanakami, Japan. *Journal of Hydrology* 261:173-192.
- Uchida, T., Y. Asano, N. Ohte, and T. Mizuyama. 2001. Analysis of flowpath dynamics at a forested headwater catchment, central Japan. *Freiburger Schriften zur Hydrologie* 13:139-147.
- Ohte, N., N. Tokuchi, S. H., M. Tsujimura, T. Tanaka, and M. J. Mitchell. 2001. Hydrobiogeochemistry of forest ecosystems in Japan: Major themes and research issues. *Hydrological Processes* 15:1771-1789.

- Ohte, N., M. Mitchell, H. Shibata, N. Tokuchi, H. Toda, and G. Iwatsubo. 2001. Comparative Evaluation on Nitrogen Saturation of Forest Catchments in Japan and Northeastern United States. *Water, Air, & Soil Pollution* 130:649-654.
- Katsuyama, M. and N. Ohte. 2001. Effects of the variations of groundwater levels on the hydrochemical processes in a headwater catchment, Japan. *Freiburger Schriften zur Hydrologie* 13:326-332.
- Hobara, S., N. Tokuchi, N. Ohte, A. Nakanishi, M. Katsuyama, and K. Koba. 2001. Mechanism of nitrate loss from a forested catchment following a small-scale natural disturbance. *Canadian Journal of Forest Research* 31:1326-1335.
- Hirobe, M., N. Ohte, N. Karasawa, G. Zhang, L. Wang, and K. Yoshikawa. 2001. Plant species effect on the spatial patterns of soil properties in the Mu-us desert ecosystem, Inner Mongolia, China. *Plant and Soil* 234:195-205.
- Asano, Y., T. Uchida, and N. Ohte. 2001. Evaluation of water residence times in small headwater catchments. *Freiburger Schriften zur Hydrologie* 13:75-81.
- Uchida, T., N. Ohte, A. Kimoto, T. Mizuyama, and L. C. 2000. Sediment yield on a devastated hill in southern China: effects of microbiotic crust on surface erosion process. *Geomorphology* 32:129-145.
- Katsuyama, M., N. Ohte, and S. Kobashi. 2000. A three-component end-member analysis of streamwater hydrochemistry in a small Japanese forested headwater catchment. *Hydrological Processes* 15:249-260.
- Ohte, N. and N. Tokuchi. 1999. Geographical variation of the acid buffering of vegetated catchments: Factors determining the bicarbonate leaching. *Global Biogeochemical Cycles* 13:969-996.
- Ohte, N., N. Tokuchi, and Y. Asano. 1998. Spatial variations in the acid buffering processes in forest catchments. SCHC (Standing Committee on Headwater Control) Publication:69-83
- Kimoto, A., T. Uchida, N. Ohte, T. Mizuyama, and C. Li. 1998. Hydrological processes and sediment yield on devastated slopes in Jiang-Xi Province, China. *IAHS Publication* 249:221-227.
- Asano, Y., N. Ohte, M. Katsuyama, and S. Kobashi. 1998. Changes in hydrochemical formation process by forest succession stages. SCHC (Standing Committee on Headwater Control) Publication:85-95.
- Aoki, M., T. Chimura, K. Ishii, I. Kaihotsu, T. Kurauchi, K. Musiake, T. Nakaegawa, N. Ohte, P. Panya, S. Semmer, M. Sugita, K. Tanaka, O. Tsukamoto, and T. Yasunari. 1998. Evaluation of surface fluxes over a paddy field in tropical environment: Some findings

from a preliminary observation of GAME. *Journal of Japan Society of Hydrology & Water Resources* 11:39-60

Ohte, N., N. Tokuchi, and M. Suzuki. 1997. An in situ lysimeter experiment on soil moisture influence on inorganic nitrogen discharge from forest soil. *Journal of Hydrology* 195:78-98.

Ohte, N. and Y. Asano. 1997. Global comparison of the pH determining factors of the streamwaters in world forest basins. *IAHS Publication* 244:253-265.

Ohte, N., N. Tokuchi, and M. Suzuki. 1995. Biogeochemical influences on the determination of water chemistry in a temperate forest basin: Factors Determining the pH value. *Water Resources Research* 31:2823–2834, doi: 2810.1029/2895WR02041.

Ohte, N. and R. C. Bales. 1995. Multi-dimensional parameter estimation of the integrated alpine hydrochemical model using Monte-Carlo simulation. *IAHS Publication* 228:175-183.

Shimada, Y., N. Ohte, N. Tokuchi, and M. Suzuki. 1993. A dissolved silica budget for a temperate forested basin. *IAHS Publication* 215:79-88.

Ohte, N., N. Tokuchi, M. Suzuki, and G. Iwatsubo. 1991. A numerical model for water and solute movement in forest soils and its application to Cl<sup>-</sup> transport in micro-lysimeters. *IAHS Publication* 204:217-226.

*(i) Book chapters:*

Ohte, N., T. Nagata, I. Tayasu, A. Kohzu, C. Yoshimizu, and K. Osaka. 2013. Simultaneous measurement of nitrogen and oxygen isotopes of nitrate to evaluate nitrogen cycling in rivers. in B. Newman and M. Ito, editors. *The Application of Isotope Techniques for Nutrient Cycling and Management in Rivers*. International Atomic Energy Agency, Vienna.

Ohte, N., M. Nakaoka, and H. Shibata. 2012. ILTER and JaLTER: Their Missions and Linkage to Database Development in the Asia-Pacific Region. Pages 205-215 in S.-i. Nakano, T. Yahara, and T. Nakashizuka, editors. *The Biodiversity Observation Network in the Asia-Pacific Region*. Springer Japan.

Ohte, N., M. Murakami, K. Iseda, K. Tanoi, and N. Ishii. 2012. Diffusion and transportation dynamics of <sup>137</sup>Cs deposited on the forested area in Fukushima after the nuclear power plant accident in March 2011. in N. T. and T. K., editors. *Agricultural Implications of the Fukushima Nuclear Accident*. Springer, New York.

Ohte, N. and N. Tokuchi. 2011. Hydrology and Biogeochemistry of Temperate Forests. Pages 261-283 in D. F. Levia, D. Carlyle-Moses, and T. Tanaka, editors. *Forest Hydrology and Biogeochemistry: Synthesis of Research and Future Directions*. Springer, New York



Ohte, N., N. Tokuchi, and K. Osaka. 2010. Hydrologic controls on the nitrogen dynamics of forested ecosystems investigated using water and nitrate isotope signatures. In N. Ohouchi, I. Tayasu, and K. Koba, editors. *Earth, Life and Isotope*. Kyoto University Press (in press), Kyoto.

Ohte, N. and Y. Asano. 1997. Comparison of the pH determining factor of the streamwater in world forest watershed. Page 226 in M. Taniguchi, editor. *Subsurface Hydrological Responses to Land Cover and Land Use Changes*. Kluwer Academic Publishers, Boston.

#### **d. Synergistic Activities**

Co-organizer: US-Japan Joint Seminar on Hydrology and Biogeochemistry of Forested Catchment, 2000

Co-chair, Acid Rain 2005 7th International Conference on Acid Deposition “Air pollution, its effect and future”. Session “Acidification outside Europe and North America”, Prague, Czech Republic, 2005

Co-convener/Chair: Ecological Society of Japan (The 56th Annual Meeting), International Symposium on Isotope Applications in ecosystem ecology, Morioka, Japan

Chair, International Symposium on Isotope Ecology 2010 in Kyoto: Relationship between biodiversity and ecosystem function, Session “Biogeochemistry and plant physiology” Kyoto, Japan, 2010

#### **e. Research Experience and Working Fields:**

Since 1987 Studies on the hydrological cycle of forest watersheds, Japan

1987-1992 Studies on the pore structure and hydraulic properties of forest soils, Japan

Since 1990 Hydrobiogeochemical studies on temperate forest ecosystems, Japan

1993-1994 Development and utilization of hydrochemical model for a seasonally snow-covered alpine watershed, as a part of EOS project. Sierra Nevada, CA.

Since 1996 Hydrological and Ecophysiological studies on semi-arid ecosystems in Inner Mongolia, China

1996-2001 GEWEX/GAME-tropics project, Energy, water and CO<sub>2</sub> flux observation at tropical monsoon region, Thailand

1997-2001 Carbon cycle through the terrestrial ecosystems in temperate forests, streams and lakes project, related IGBP/GCTE/TEMA project. Japan

2001-2003 Carbon budget estimation project, funded by the Ministry of Environment of Japan.

Since 2004 Isotope applications for environmental evaluations of the river basin, funded by the Japan Science and Technology Agency.

Since 2006 Development of the ecological database for the Long-term Ecological Research Network in Japan, funded by the Ministry of Environment of Japan.

#### **f. Reviewer Experiences:**

Journals

Journal of Geophysical Research, Water Resources Research, Journal of Hydrology, Hydrological Processes, Forest ecology and Management, Ecological Research, Journal of Forest Research

Report

**g. Invited Participations, Lectures:**

- 1998/4 Ohte, N., Tokuchi, N. and Asano, Y. "Spatial variations in the acid buffering processes in forest catchments". Keynote lecture, International Inter- disciplinary Conference on Headwater Control, HeadWater '98, Merano, Italy.
- 2003/3 Ohte, N. "Biogeochemical and hydrologic controls on nitrogen dynamics at the Kiryu Experimental Watershed, Japan". Invited Lecture, US Geological Survey, Water Resources Division Seminar, Menlo Park, California.
- 2005/5 Ohte, N. et al., "Hydro-biogeochemical response to forest defoliation by pine wilt disease in a headwater forested catchment in central Japan" Cary Conference on Infectious Disease Ecology: Effects of disease on ecosystems and of ecosystems on disease, Institute of Ecosystem Studies, Millbrook, NY Invited.
- 2007/10 Ohte, N. and Nagata, T. "Simultaneous measurement of nitrogen and oxygen isotopes of nitrate to survey the sources and transformation of nitrogen loads in rivers". Invited Lecture, Technical Meeting on the application of isotope techniques for nutrient cycling and management in rivers, International Atomic Energy Agency, Vienna, Austria.
- 2008/11 ISSM 2008 7th International Symposium for Subsurface Microbiology, Shizuoka. Chairing the session on "Interaction between surface and subsurface in terrestrial and marine systems". Lecture: "In situ isotope signals of nitrate show how high the gross nitrification is in the surface soils in a humid temperate forest in Japan".
- 2009/3 Ecological Society of Japan (The 56th Annual Meeting, Morioka) International Symposium on Isotope Applications in ecosystem ecology (Chairing). Lecture: "Isotope application in catchment hydrology and biogeochemistry".
- 2009/7 International Workshop on Networking Biodiversity Observation Activities in Asia Pacific Region (AP-BON Workshop), Nagoya. Lecture: "The JaLTER database: towards comprehensive ecological data utilization in Japan"
- 2010/11 International Symposium on Isotope Ecology 2010 in Kyoto: Relationship between biodiversity and ecosystem function, Kyoto, Chairing session: "Biogeochemistry and plant physiology", Lecture: "Multi scale survey of river nitrate sources: nitrogen and oxygen isotope values as promise information for detecting the controlling factors"
- 2011/12 American Geophysical Union, Fall Meeting 2011, Biogeoscience Session 68: Seasonality of Forest Hydrology and Biogeochemistry. Lecture: "Seasonal variations of nitrate discharge from forested catchments: Information Derived from Japanese Case Studies"