

Curriculum Vitae - Shin ABE

PERSONAL DETAILS

Name: Susumu (Shin) ABE
Sex: Male
Date of Birth: June 30th, 1977
Place of Birth: Tokyo, Japan
Blood Type: AB (+)
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RESEARCH INTERESTS

- 1) Soil organic matter dynamics and carbon sequestration mechanisms with focus on interactions of organic matter with soil minerals under anthropogenic disturbances
- 2) Nutrient cycling and water dynamics in various land-use systems and natural/agricultural ecosystems
- 3) Influence of soil faunal activity on soil formation and humus development processes with special reference to soil invertebrates (e.g. termites and earthworms)
- 4) Identification of nutrient disorder problems and exploring their mitigation options in higher plants
- 5) Gender role and social institutions (e.g. land tenure system, agricultural water association) in traditional farming systems in Sub-Saharan Africa
- 6) Interdisciplinary approaches in rural planning and development studies

ACADEMIC QUALIFICATIONS

- 1) Ph.D. in Bioenvironmental Sciences, Tottori University (Japan), March 2007
- 2) M.Sc. in Life and Environmental Science, Shimane University (Japan), March 2004
- 3) B.Sc. in Agronomy and Forestry, Iwate University (Japan), March 2001

JOB RECORDS AND RESEARCH EXPERIENCES

- 1) 2009 (Oct) – current: Associate principal scientist/SMART-IV project coordinator, Africa Rice Center (AfricaRice, ex-WARDA), Benin
- 2) 2010 (Feb – Mar) & 2009 (Apr – May): Visiting research fellow, Kinki University, Japan

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- 3) 2008 (Apr) – 2009 (Sep): Postdoctoral fellow, Africa Rice Center (AfricaRice, ex-WARDA), Benin
- 4) 2007 (Jul) – 2008 (Mar): Agricultural officer, Rwanda Rural Rehabilitation Initiative (local NGO), Rwanda, JICA short-term volunteer
- 5) 2007 (Feb – Mar): Intern, National Institute of Agro-Environmental Sciences, Japan
- 6) 2006 (Sep) – 2007 (Jan): Visiting researcher, Technische Universität München, Germany, DAAD Short-Term Research Scholarship
- 7) 2006 (Jan – Mar): Visiting scientist, International Livestock Research Institute (ILRI), Kenya, Japan-CGIAR Fellowship
- 8) 2004 (Aug) – 2005 (Mar): Agricultural officer, Watershed Initiative in Nigeria (local NGO), Nigeria
- 9) 2003 (Aug – Sep): Field researcher, West Sulawesi, Indonesia, FASID Fieldwork Program
- 10) 2002 (Aug) – 2003 (Feb): Intern, Centro Tecnológico Agropecuario en Bolivia (CETABOL), Bolivia, JICA Internship Program
- 11) 2001 (Aug – Oct): Research assistant, Hirose Project, International Institute of Tropical Agriculture (IITA), Nigeria

PUBLICATIONS (in peer-reviewed journals)

- 1) Abe, S. S., Buri, M. M., Issaka, R. N., Kiepe, P., Wakatsuki, T. (2010) Soil fertility potential for rice production in West African lowlands. *JARQ–Japan Agricultural Research Quarterly* (in press)
- 2) Abe, S. S., Hashimoto, S., Umezane, T., Yamaguchi, T., Yamamoto, S., Yamada, S., Endo, T., Nakata, N. (2010) Agronomic and environmental performance of rapeseed oilcake in the lowland rice farming of Japan. *Communications in Soil Science & Plant Analysis* (in press)
- 3) Abe, S. S., Wakatsuki, T. (2010) Possible influence of termites on forms and composition of free sesquioxides in tropical soils. *Pedobiologia* (in press) doi:10.1016/j.pedobi.2010.02.002
- 4) Fu, R. H. Y., Abe, S. S., Wakatsuki, T., Maruyama, M. (2010) Traditional farmer-managed irrigation system in Central Nigeria. *JARQ–Japan Agricultural Research Quarterly* 44: 53–60.
- 5) Abe, S. S., Mueller, C., Steffens, M., Koelbl, A., Knicker, H., Koegel-Knabner, I. (2009) Effects of land-use change on chemical composition of soil organic matter in tropical lowland Bolivia. *Grassland Science* 55: 104–109.
- 6) Abe, S. S., Oyediran, G.O., Masunaga, T., Yamamoto, S., Honna, T., Wakatsuki, T. (2009) Soil development and fertility characteristics of inland valleys in the rain forest

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- zone of Nigeria: Mineralogical composition and particle-size distribution. *Pedosphere* 19: 505–514.
- 7) Abe, S. S., Yamamoto, S., Wakatsuki, T. (2009) Physicochemical and morphological properties of termite (*Macrotermes bellicosus*) mounds and surrounding pedons on a toposequence of an inland valley in the southern Guinea savanna zone of Nigeria. *Soil Science & Plant Nutrition* 55: 514–522.
 - 8) Abe, S. S., Yamamoto, S., Wakatsuki, T. (2009) Soil-particle selection by the mound-building termite *Macrotermes bellicosus* on a sandy loam soil catena in a Nigerian tropical savanna. *Journal of Tropical Ecology* 25: 449–452.
 - 9) Abe, S. S., Oyediran, G. O., Masunaga, T., Yamamoto, S., Honna, T., Wakatsuki, T. (2007) Primary mineral characteristics of topsoil samples from lowlands of seven West African countries. *Japanese Journal of Tropical Agriculture* 51: 35–39.
 - 10) Abe, S. S., Oyediran, G.O., Yamamoto, S., Masunaga, T., Honna, T., Wakatsuki, T. (2007) Soil development and fertility characteristics of inland valleys in the rain forest zone of Nigeria: Physicochemical properties and morphological features. *Soil Science & Plant Nutrition* 53: 141–149.
 - 11) Abe, S. S., Yamamoto, S., Masunaga, T., Endo, T., Wakatsuki, T., Honna, T. (2007) Land-use effects on soil macro- and micronutrient status in tropical lowland zone of Bolivia. *Grassland Science* 53: 33–38.
 - 12) Abe, S. S., Hashi, I., Masunaga, T., Yamamoto, S., Honna, T., Wakatsuki, T. (2006) Soil profile alteration in a brown forest soil under high-input tea cultivation. *Plant Production Science* 9: 457–461.
 - 13) Abe, S. S., Masunaga, T., Yamamoto, S., Honna, T., Wakatsuki, T. (2006) Comprehensive assessment on the clay mineralogical composition of lowland soils in West Africa. *Soil Science & Plant Nutrition* 52: 479–488.

PUBLICATIONS (miscellaneous, non-refereed)

- 1) Abe, S. S. (2007) Soil Development and Fertility Characteristics of West African Lowlands. Ph.D. Thesis, Tottori University, Japan (available at Tottori University and National Diet Library, Japan)

PRESENTATIONS (at international conferences and workshops)

- 1) Abe, S. (2009) Sawah, Market Access and Rice Technologies for Inland Valleys (SMART-IV) project: basic concept and preliminary findings. *FAO Regional Workshop on Rice and Aquaculture for Productivity Increase and Market Development in West Africa*, December 14–18, 2009, Cotonou, Benin (invited talk)

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- 2) Abe, S., Endo, T., Irshad, M., Yamamoto, S., Wakatsuki, T., Honna, T. (2006) Physicochemical properties of termite mounds and surrounding soils on a toposequence of inland valley in the southern Guinea savanna zone of Nigeria. ***The 2nd Scientific Congress of East Asian Federation of Ecological Societies (EAFES2)***, March 25–28, 2006, Niigata, Japan (oral presentation)

RESEARCH PROJECTS

- 1) Sawah, Market Access and Rice Technologies for Inland Valleys (SMART-IV), ca. \$3,000,000, Ministry of Agriculture, Forestry and Fisheries (MAFF), Japan, 2009–2014 (project leader)
- 2) Development of Sustainable Rice Farming System in Low Activity Clay Soils in West African Lowlands, ca. \$180,000, Ministry of Foreign Affairs (MOFA), Japan, 2008–2011 (project leader)
- 3) West African Rice Green Revolution by Sawah Ecotechnology and the Creation of African Satoyama Systems (JSPS Grant-in-Aid No. 19002001), ca. \$2,000,000 Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan, 2007-2012 (collaborative member)

ACADEMIC AWARDS

- 1) DAAD Short-Term Research Scholarship, ca. €7,000, German Academic Exchange Service, Germany, 2006
- 2) Japan-CGIAR Fellowship, ca. \$15,000, Ministry of Agriculture, Forestry and fishery, Japan, 2005

SUPERVISIONS

- 1) Mr. Ryo TAKAHASHI (M.A. student, University of Tokyo, Japan), Impact assessment of sawah development on socioeconomic indicators of rural households in Bida, central Nigeria, August–October 2008 & June–August 2009
- 2) Mr. Takashi KOTEGAWA (Ph.D. candidate, Kochi University, Japan), Traditional farming system and soil fertility in Benin, Japan-CGIAR Fellowship 2008, November 2008–January 2009
- 3) Dr. Taisuke ONISHI (research student, Tokyo University of Agriculture & Technology, Japan), Effects of soil invertebrates on soil physical and chemical properties. Japan-CGIAR Fellowship 2008, November 2008–January 2009

PROFESSIONAL MEMBERSHIPS

- 1) Japanese Society of Soil Science and Plant Nutrition (since 2001)

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- 2) Crop Science Society of Japan (since 2005)
- 3) British Society of Soil Science (since 2010)

LANGUAGES

- 1) Japanese (native) 2) English (fair) 3) French (poor)

REFERENCES

- 1) Dr. Marco WOPEREIS (Director of Research for Development)
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- 2) Dr. Ingrid KÖGEL-KNABNER (Professor)
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4423; Fax: (49) 8161 71 4466
- 3) Dr. Toshiyuki WAKATSUKI (Professor)
School of Agriculture, Kinki University, Nara, 631-8505 Japan; E-mail:
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- 4) Dr. Sadahiro YAMAMOTO (Professor)
Faculty of Agriculture, Tottori University, Tottori, 680-8553 Japan; E-mail:
yamasada@muses.tottori-u.ac.jp; Tel/Fax: (81) 857 31 5367
- 5) Dr. Tsugiyuki MASUNAGA (Professor)
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