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EDUCATIONAL BACKGROUND

Year A.D. 1995	Ph.D. (Air Pollution Chemistry and Environmental Physics), Paris Diderot University (Paris 7), France
Year A.D. 1990	M.Sc. (Physical Chemistry), Paris Diderot University (Paris 7), France
Year A.D. 1990	B.Sc. (Physical Chemistry), Paris Diderot University (Paris 7), France

RESEARCH INTEREST

Air pollution chemistry, Environmental physics, Waste as fuel

WORK EXPERIENCE

1995-1999	Managing Editor of Analusis (International Journal on Analytical Chemistry) and of JCP (International Journal on Physical Chemistry, Chemical Physics and Biophysical Chemistry): Journals of the French Chemical Society, Paris, France.
1999-2000	Research Associate in the Atmospheric Aerosols issued from High Temperature Sources group of Dr Jean-Paul Quisefit, “Laboratoire Interuniversitaire des Systèmes Atmosphériques (LISA) – UMR CNRS 7583” directed by Prof. Dr. François Raulin, University of Paris 7 and Paris 12, Paris, France.
2002-2010	Assistant Professor of the Environment Division of the Joint Graduate School of Energy and Environment (JGSEE), King Mongkut’s University of Technology Thonburi, Bangkok, Thailand.
2008-Present	Chairperson of the Environment Division of the Joint Graduate School of Energy and Environment (JGSEE), King Mongkut’s University of Technology Thonburi, Bangkok, Thailand.
2010-Present	Associate Professor of the Environment Division of the Joint Graduate School of Energy and Environment (JGSEE), King Mongkut’s University of Technology Thonburi, Bangkok, Thailand.

PUBLICATIONS

International Journal

- Srithawirat, T., Garivait, S., and Brimblecombe, P., (2021) Seasonal Variation of Black Carbon in Fine Particulate Matter in Semi-urban and Agricultural Areas of Thailand. *Aerosol Science and Engineering*. Jun 2021
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- de Gennaro, M., Billaud, Y., Pizzo, Y., Garivait, S., Loraud, J.-C., El Hajj, M. & Porterie, B. (2017) Real-time wildland fire spread modeling using tabulated flame properties. *Fire Safety Journal* 91: 872-881.
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- Hiroshi Tanimoto, Kohei Ikeda, K. Folkert Boersma, J. van der A Ronald and Savitri Garivait (2015) Interannual variability of nitrogen oxides emissions from boreal fires in Siberia and Alaska during 1996-2011 as observed from space. *Environmental Research Letters*. 10(6). Jun 2015
- Thi Bich Thao Pham, Savitri Garivait and Agapol Junpen (2015) An Investigation of Atmospheric Mercury from Power Sectors in Thailand. *Atmosphere*. 6(4): p. 490-502. April 2015
- Wilaiwan Sornpoon, Sebastien Bonnet, Poonpipope Kasemsap, Praphan Prasertsak and Savitri Garivait (2014) Estimation of Emissions from Sugarcane Field Burning in Thailand Using Bottom-Up Country-Specific Activity Data. *Atmosphere*. 5(3): p. 669-685. September 2014
- Kanittha Kanokkanjana and Savitri Garivait (2014) Carbon Released to the Atmosphere from Open Burning of Agricultural Biomass. *Research journal of Chemistry and Environment*. 18(7): p. 68-77.
- Salakjai Jenjariyakosoln, Shabbir H Gheewala, Boonrod Sajjakulnukit and Savitri Garivait (2014) Energy and GHG emission reduction potential of power generation from sugarcane residues in Thailand. *Energy for Sustainable Development*. 23(0): p. 32-45. December 2014
- U Chaiyo and S Garivait (2014) Fire characteristics and conversion of carbon mass balance from leaf litter fuels to residues after burning in mixed deciduous forest fires in Thailand. *Research Journal of Chemistry and Environment*. 19(3): p. 34-43. Sep-Oct 2014
- U Chaiyo and S Garivait (2014) Estimation of Black Carbon Emissions from Dry Dipterocarp Forest Fires in Thailand. *Atmosphere*. 5(4): p. 1002-1019. December 2014
- Kanokkanjana Kanittha and Savitri Garivait. (2013) Alternative Rice Straw Management Practices to Reduce Field Open Burning in Thailand. *International Journal of Environmental Science and Development*. 4(2): p. 119-123. April 2013
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- P. Cheewaphongphan and S. Garivait. (2013) Bottom up approach to estimate air pollution of rice residue open burning in Thailand. *Asia-Pacific Journal of Atmospheric Sciences*. 49(2): p. 139-149. February 2013
- Pham, T. B. T. & Garivait, S. (2012) An Investigation of Hg Deposition Using MM5/HYSPLIT-Hg: a Case Study on Contribution of Thermal Power Plants in Thailand *GMSARN International Journal* 6(4): 151-156.
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- Kanittha Kanokkanjana and Savitri Garivait. (2012) Estimation of Emission from open Open Burning of Sugarcane Residues before Harvesting. *GMSARN International Journal*. 6(4): p. 156-161. Decemembr 2012
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- Kanittha Kanokkanjana and Savitri Garivait. (2011) Climate Change Effect from Black Carbon Emission: Open Burning of Corn Residues in Thailand. *World Academy of Science, Engineering and Technology I : Mathematical and Computational Sciences*. 58: p. 246-249. Oct., 2011
- Junpen, S. Garivait, S. Bonnet, and A. Pongpullponsak. (2011) Estimation of Forest Fire Emission in Thailand by Using Remote Sensing Information. *World Academy of Science, Engineering and Technology I : Mathematical and Computational Sciences*. 58: p. 735-743. Oct., 2011
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International Conference

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- Pengjan, S., Bonnet, S. and Garivait, S. (2018) PM2.5 concentration in Bangkok Metropolitan Region: Analysis of the Spatio-temporal Variability of the PM2.5/PM10 ratio. in 2018 Joint International Conference on ABaCAS and CMAS-Asia-Pacific. Beijing, China. May 2018
- Phuengyaem, P., Junpen, A., and Garivait, S. (2018) Relationships between on-road transport emissions and ambient particulate matter concentration in the Bangkok Metropolitan Region during 2007-2015. in 7th International Conference on Sustainable Energy and Environment (SEE2018). Bangkok, Thailand. 28-30 November.
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in 7th International Conference on Sustainable Energy and Environment (SEE2018). Bangkok, Thailand. 28-30 November.

- Oo, M.Y., Bonnet, S., and Garivait, S. (2018) Assessment of vegetation fires in Myanmar based on NOAA AVHRR and Terra and Aqua MODIS satellite data. in 7th International Conference on Sustainable Energy and Environment (SEE2018). Bangkok, Thailand. 28-30 November.
- Kamnoet, O., Junpen, A., and Garivait, S. (2018) Improving the estimation of burned area from biomass open burning in the Greater Mekong Sub-Region using high resolution satellite products. in 7th International Conference on Sustainable Energy and Environment (SEE2018). Bangkok, Thailand. 28-30 November.
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- Bich, T.P.T., Chatani, S., and Garivait, S. (2018) Assessment of potential health benefit from particulate matter emission reduction from the power sector in Thailand. in 7th International Conference on Sustainable Energy and Environment (SEE2018). Bangkok, Thailand. 28-30 November.
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- Xaisavanh Khiewvongphachan, Agapol Junpen and Savitri Garivait (2015) Estimation of Carbon Stock Change from Forestland Conversion and Land Use Change into Forestland in Lao PDR During 1992 to 2012. in International Soil Conference (ISC2015). Phetchaburi, Thailand. 18-21 August 2015
- Pham Thi Bich Thao, Agapol Junpen, Penwadee Cheewaphongphan, Thanonphat Boonman, Savitri Garivait, Satoru Chatani and Kazunori Kojima (2014) Updated Atmospheric Emissions Inventory of Gaseous and Particulate from Power Generation in Thailand using GAINS-Asia. in 5th International Conference on Sustainable Energy and Environment (SEE2014). Bangkok, Thailand. November 19-21, 2014
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- Sornpoon, W., Sebastien, B. & Garivait, S. (2013) Effects of Open Burning on Soil Carbon Stock in Sugarcane Plantation in Thailand. In: International Conference on Environmental and Natural Resource Engineering (ICENRE 2013), Pattaya, Thailand.
- Savitri Garivait and Kobsak Wanthongchai Ubonwan Chaiyo. (2012) Structure and Carbon Storage in Aboveground Biomass of Mixed Deciduous Forest in Western Region, Thailand. in The 6th GMSARN International Conference 2011 on "Social-Energy-Environmental Development: SEED towards Sustainability". 28-30 March 2012 Nong Khai, Thailand.
- Pham Thi Bich Thao and Savitri Garivait. (2012) Mercury Emissions from Thermal Power Plants in Thailand. in 4th International Conference on Sustainable Energy & Environment (SEE 2011): A Paradigm Shift to Low Carbon Society. 27-29 February 2012. Bangkok, Thailand.
- T.B.T Pham and S Garivait. (2012) An investigation of hg deposition using MM5/HYSPLIT-Hg: A case study on contribution of thermal power plants in Thailand. in GMSARN International Conference on Social-Energy-Environmental Development: SEED towards Sustainability. 28-30 March 2012. Nongkhai, Thailand.
- Kanthip Krutthai, Savitri Garivait, and Prapat Pongkiatkul. (2012) Daytime and Nighttime Fluctuation of Black Carbon and Fine Particulate Matter in Urban and Suburban Bangkok. in 2012 International Conference on Sustainable Environmental Technologies (ICSET) 26-27 April 2012. Bangkok, Thailand.
- K Kanokkanjana and S Garivait. (2012) Estimation of Emission from Open Burning of Sugarcane Residues before Harvesting. in GMSARN International Conference on Social-Energy-Environmental Development: SEED towards Sustainability. 26-28 March 2012. Nongkhai, Thailand.
- Agapol Junpen, Savitri Garivait, Sebastien Bonnet, and Adisak Pongpullponsak. (2012) Surface Fire Spread Prediction in Mixed Deciduous Forest fuel in Thailand. in 4th International Conference on Sustainable Energy & Environment (SEE 2011): A Paradigm Shift to Low Carbon Society. 27-29 February 2012. Bangkok, Thailand.
- Salakjai Jenjariyakosoln, Savitri Garivait, and Boonrod Sajjakulnukit. (2012) Very Small Power Plant Using Bagasse: Options for Emissions Reduction and Energy Efficiency Improvement in 4th International Conference on Sustainable Energy & Environment (SEE 2011): A Paradigm Shift to Low Carbon Society. 27-29 February 2012. Bangkok, Thailand.
- Nattasut Mantananont, Savitri Garivait, and Suthum Patumsawad. (2011) Emission factors of particulate matter emitted from co-combustion of Thai lignite and agricultural residues in fixed bed combustor. in The 1st Environment Asia International Conference on "Environmental Supporting in Food and Energy Security: Crisis and Opportunity. 22-25 March 2011. Bangkok, Thailand.
- Nattasut Mantananont, Savitri Garivait, and Suthum Patumsawad. (2011) Emission factors of particulate matter emitted from co-combustion of Thai lignite and agricultural residues in fixed bed combustor. in 2nd International Conference on Environmental Science and Technology (ICEST 2011). 26-28 February 2011. Singapore.

- Narumon Ladawan Na Ayudhaya and Savitri Garivait. (2011) Potential of *Jatropha Curcas* Derived for Rice Farmers in Thailand. in The 9th Eco-Energy and Materials Science and Engineering Symposium 2011 (EMSES2011) 25-28 May 2011. Chiang Rai, Thailand.
- K Kanokkanjana and S. Garivait. (2011) Climate Change Effect from Black Carbon Emission: Open Burning of Corn Residues in Thailand. in International Conference on Civil and Environmental Engineering (ICCEE 2011). 26-28 October 2011. Indonesia.
- Kanittha Kanokkanjana, Penwadee Cheewaphongphan, and Savitri GARivait. (2011) Black Carbon Emission from Paddy Field Open Burning in Thailand. in 2011 International Conference on Environmental Science and Technology (ICEST 2011). 26-28 February 2011. Singapore.
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- Penwadee Cheewaphongphan, Savitri Garivait, and Adisak Pongpullponsak. (2011) Seasonal Distribution of Emissions from Rice Field Residue open Burining in Thailand using Questionnaire Survey and Field Experiment. in The 1st Environmental Asia International Conference on Environmental Supporting in Food and Energy Security: Crisis and Opportunity (TSHE 2011). 22-25 March 2011. Bangkok, Thailand.
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