

Xaysackda Vilaysouk

PhD Candidate

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Xaysackda is working on material flow analysis of developing nation, Laos. His research focuses on making contributions of industrial ecology knowledge to support Industrial Ecology discipline in developing countries.

EDUCATION

PhD in Systems Innovation

Graduate School of Engineering / The University of Tokyo

04/2016 – Present

Tokyo, Japan

Research Student

Graduate School of Engineering / The University of Tokyo

04/2015 – 03/2016

Tokyo, Japan

M.Sc in Environmental and Technology

Sirindhorn International Institute of Technology (SIIT)/Thammasat University

10/2012 – 01/2015

Pathum Thani, Thailand

B.Eng in Environmental Engineering

Faculty of Engineering/National University of Laos

10/2007 – 08/2012

Vientiane, Laos

SKILLS

Material Flow Analysis Material Stock Modeling

Industrial Ecology Social Network Analysis

Resource Efficiency Data Science R & Python

AWARDS

Scholarship: Japanese Government MEXT Scholarship 2015

Ministry of Education, Sport and Science

04/2015.

Scholarship: SIIT Scholarship for Neighboring Countries

Sirindhorn International Institute of Technology (SIIT)

10/2012

RESEARCH EXPERIENCE

Postgraduate Internship

CSIRO Land & Water, Canberra, Australia

04/2017 – 05/2017

JOURNAL PUBLICATIONS

Xaysackda Vilaysouk, Heinz Schandl, Shinsuke Murakami: *A comprehensive material flow account for Lao PDR to inform environmental and sustainability policy*. Journal of Industrial Ecology ([in press](#))

Xaysackda Vilaysouk, Heinz Schandl, Shinsuke Murakami: *Improving the knowledge base on material flow analysis for Asian developing countries: A case study of Lao PDR*. Resources Conservation and Recycling 12/2017; 127:179-189., DOI:10.1016/j.resconrec.2017.09.006

Xaysackda Vilaysouk, Sandhya Babel: *Benefits of Improved Municipal Solid Waste Management on Greenhouse gas Reduction in Luangprabang, Laos*. Environmental Technology 03/2017; 38(13):1-40., DOI:10.1080/09593330.2017.1301562

Sandhya Babel, **Xaysackda Vilaysouk**: *Greenhouse gas emissions from municipal solid waste management in Vientiane, Lao PDR*. Waste Management & Research 11/2015; 34(1)., DOI:10.1177/0734242X15615425

CONFERENCE PROCEEDINGS

Xaysackda Vilaysouk, Shinsuke Murakami, Heinz Schandl : *The Industrial Ecology Knowledge to support Sustainable Development Goals in ASEAN: Opportunities and challenges*. the Gordon Research Conference on Industrial Ecology, Les Diablerets, Switzerland; 05/2018

Xaysackda Vilaysouk, Shinsuke Murakami, Heinz Schandl : *Assessing a Physical Dimension of Lao Economy through Material Flow Analysis*. The 9th biennial conference of the International Society for Industrial Ecology (ISIE) and the 25th annual conference of the International Symposium on Sustainable Systems and Technology (ISSST), Chicago, USA; 07/2017

Xaysackda Vilaysouk, Shinsuke Murakami: *Material flow analysis for sustainable resource use in Lao PDR: the potentials and challenges*. the International Society for Industrial Ecology (ISIE) 12th Socio-Economic Metabolism section conference and 5th Asia-Pacific conference, Nagoya University, Nagoya, Japan; 09/2016

Xaysackda Vilaysouk, Sandhya Babel: *CO-BENEFITS OF IMPROVED MUNICIPAL SOLID WASTE MANAGEMENT IN LUANGPRABANG, LAO PDR*. the International Conference on Solid Waste 2015: Knowledge Transfer for Sustainable Resource Management, Hong Kong Convention and Exhibition Centre, Hong Kong SAR, China; 05/2015, DOI:10.13140/RG.2.1.2162.0565

Xaysackda Vilaysouk, Sandhya Babel: *Estimation of Greenhouse Gas Emission from Landfill in Luangprabang, Lao PDR*. the 8th GMSARN International Conference 2013 on "Green Growth in GMS: Energy, Environment and Social Issues, Mandalay, Burma; 12/2013, DOI:10.13140/2.1.3358.8000

Xaysackda Vilaysouk, Sandhya Babel: *Comparison of Potential Greenhouse Gas Emission from Municipal Solid Waste Disposal Site in Savannakhet and Champasak, Lao PDR*. The 6th ACEC and The 6th AEEC, Bangkok, Thailand; 11/2013, DOI:10.13140/2.1.5062.7368