

CURRICULUM VITAE

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| Name | Alice Sharp |
| Title(s) | Dr. |
| Position | Lecturer |
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Education

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| 2000 | Ph.D. in Natural Resource Management, Hiroshima University, Japanese Government Scholarship, JAPAN, |
| 1997 | M.S. in Natural Resource Management, Hiroshima University, Japanese Government Scholarship, JAPAN |
| 1995 | M.S. in Environmental Risk Assessment of Tropical Ecosystems, GTZ Scholarship, Chiang Mai University, THAILAND |
| 1989 | B.S. in Microbiology, Chiang Mai University, THAILAND |

Research Areas

- Bio-indicator for environmental risk assessment
- Community based environmental management
- Product Life Cycle Assessment (LCA)
- Climate Change adaptation measures
- System Dynamic (SD) modeling in waste management.
- Integrated Solid Waste management
- Waste-to-Energy Technologies

Professional Experience

Nov 2018-Present: Lecturer, Department of Biology, Faculty of Science Chiang Mai University

Aug2009-Oct 2018: Associate Professor, Department of Common and Graduates Studies, Sirindhorn International Institute of Technology, Thammasat University

Nov 2003–Aug 2009: Assistant Professor, Department of Common and Graduates Studies, Sirindhorn International Institute of Technology, Thammasat University

Oct 2001-Oct 2003: Lecturer, Environmental Technology Program, Sirindhorn International Institute of Technology, Thammasat University

May 2000-Oct 2001: Lecturer, School of Science, Mae Fah Luang University

Administrative Experience

Sep 2014 – October 2018: Deputy Director for General Administration, SIIT, TU
April 2006 – Aug 2014: Head of Department of Common and Graduates Studies, SIIT, TU

Dec 2004 – Mar 2005: Coordinator of Environmental Technology Program, SIIT, TU

Nov 2003 – Nov 2004: Chairperson of Environmental Technology Program, SIIT, TU

Teaching Experience

2006 – October 2018 Department of Common and Graduate Studies

- Teaching first year courses such as ***Introductory Economics, Introduction to Biological Sciences*** and ***General Sciences***.
- Teaching Master course “Principles of sustainable environmental engineering and management”

2001 – 2005 Environmental Technology Program (SIIT)

- Teaching in the areas of ***Environmental Law, Biology for Environmental Engineer, Ecology, and Environmental Economics***
- Supervising laboratory courses related to environmental science and environmental technology.
- Supervising and conducting research in the areas of community based resource management, solid waste management and product life cycle assessment.
- Recipient of ***‘Best Teaching Award 2002’***

2000-2001 **Lecturer**, School of Science, Mae Fah Luang University, Chiang Rai, THAILAND.

- Teach undergraduate level in the areas of ***Environmental Science, Introduction to Ecology, and Biology for science students***.
- Coordinator of the freshman preparation class program; organized Computer, Mathematics and English classes for 350 freshmen of Mae Fah Luang University before the starting of the first semester.
- Coordinator for the Science In School (SIS) project in Chiang Rai; working in collaboration with staff from Chiang Mai University and high schools in Chiang Rai to carry out science-related activities such as science camp and science project.

1998-2000 **Teaching and Research Assistant**, Graduate School for International Development and Cooperation, Hiroshima University, JAPAN.

- Conduct research in the area of ***Ecosystem Management and Environmental Conservation***.

- Give lectures to both undergraduate and graduate levels in the fields of Advanced Ecology and Conservation Ecology.
- Assist Prof. Nobukazu Nakagoshi of Graduate School for International Development and Cooperation in JICA-funded project evaluation (Reforestation and Extension Project in the Northeast of Thailand; REX)

Editorial Work

- Reviewer, Environmental Management Journal.
- Reviewer, Waste Management Journal

Training Courses

- 2002 Attended a course titled ‘*Nuclear Power Policy, Planning and Project Management*’ organized by the Korea Atomic Energy Research Institute and the Korea International Cooperation Agency of the republic of Korea.
- 2002 Participated in ‘*Environmental Modeling Workshop*’ at Chulalongkorn University, Bangkok, Thailand.
- 1998 Attended a training course on ‘*Participatory Rural Appraisal*’ organized by Thailand Environment Institute, Chaiyaphoom Province, Thailand.
- 1997 Participated in training course on ‘*Reforestation Techniques in Mountainous Area*’ in Hiroshima Prefecture as organized by Japan International Cooperation Agency (JICA)
- 1994 Joined a training course titled ‘*Lichens identification and its use as bioindicator*’ organized by Chiang Mai University, Thailand. The course was funded by GTZ.

Publications

International Journal

1. **Sharp, A.** and N. Nakagoshi (1997). National parks and protected areas in Thailand. *Journal of International Development and Cooperation*. 3: 53-67.
2. **Sharp, A.,** N. Nakagoshi and C. McQuistan (1999). Rural participatory buffer zone management in northern Thailand. *Journal of Forest Research*. 4:87-92.
3. **Sharp, A.,** N. Nakagoshi and S. Elliot (1999). Factors affecting natural regeneration in a disturbed primary forest and gap in Northern Thailand. *Hikobia* 13(1): 1-9.
4. Kum, V., **Sharp, A.** and N. Harnpornchai (2005). Improving the Solid Waste Management in Urban Cambodia: A strategic approach. *Waste Management Journal* 25(2005)101-109.
5. **Alice Sharp** and Nobukazu Nakagoshi (2006). Rehabilitation of Degraded Forests in Thailand: Policy and Practice. *Landscape and Ecological Engineering Journal* (2):139-146.

6. Yasantha Abeysundra U.G., Sandhya Babel, Shabbir Gheewala, **Alice Sharp** (2007). Environmental, Economic and Social Analysis of Materials for Doors and Windows in Sri Lanka. *Building Environment* (42):2141-2149.
7. Thammawong, C., Thongkhong K., Iamtassana K., **Sharp A.**, and P Opaprakasit (2008) Production and Characterization of Poly hydroxyalkanoate (PHAs) from Inexpensive Substrates by *Alcaligenes latus*. *Advanced Materials Research*, trans Tech Publications Ltd. Switzerland.
8. Nguyen, T.H., Petchsuk., A., Tangboriboonrat, P., Opaprakasit, M., **Sharp, A.**, Opaprakasit, P. (2010). Synthesis and characterizations of PLLA/PEG block copolymers. *Advanced Materials Research*, 93-94, Pp. 198-201.
9. Sang-Arun, J., Bengtsson, M., **Sharp, A.**, and Kim Heng C. (2010). Promoting Urban Organic Waste Utilization in Developing Asian Countries: The Case of Cambodia and Thailand. *Regional Development Dialogue*, Vol.31, No. 2 Autumn 2010. Pp. 184-199.
10. Suthawaree, J., Tajima Y., Khunchornyakong A., Kato S., **Sharp A.**, and Y. Kajii (2012). Identification of volatile organic compounds in suburban Bangkok, Thailand and their potential for ozone formation. *Atmospheric Research* 104-105(2012) 245-254.
11. **Sharp, A.** and L. Li (2013). Status of Transboundary Movements of Hazardous Wastes in Selected GMS Countries. *GMSARN International Journal*, Vol 7(3). Pp.101-106.
12. Chhay H. and **A. Sharp** (2014). Comparison of GHG emission from municipal solid waste management technology in selected cities in Cambodia. *Advance Materials Research Vols.931-932(2014)* Pp. 645-649.
13. Chhay H. and **A. Sharp** (2014). Greenhouse gas emission from municipal solid waste in Phnom Penh, Cambodia. *GMSARN International Journal*. Vol 8 No. 3 Pp.73-78.
14. Sukholthaman P., Chanvarasuth, P. and **A. Sharp** (2015). Analysis of waste generation variables and people's attitudes towards waste management system: a case of Bangkok. *Journal of Material Cycles and Waste Management*. **Published online: 16 December 2015.**
15. Li Liang and Alice Sharp (2016). Determination of the knowledge of e-waste disposal impacts on the environment among different gender and age groups in China, Laos, and Thailand. *Waste Management and Research* 2016 Vol. 34(4) 388-395.
16. Sukholthaman P. and **A. Sharp** (2016). A System dynamics model to evaluate effects of source separation of municipal solid waste management: A case of Bangkok, Thailand. *Waste Management* Vol. 52(2016) 50-61.
17. Li Liang and **Alice Sharp** (2016). Determination of the knowledge of e-waste disposal impacts on the environment among different educational and income levels in China, Laos, and Thailand. *Journal of Material Cycles and Waste Management*. **Published online: 07 April, 2016.**

18. Boonpa Siriporn and **Alice Sharp** (2016). Waste-to-Energy Policy in Thailand. Energy Sources, Part B: Economics, Planning, and Policy. **Accepted on 01 April, 2016**
19. Boonpa Siriporn and **Alice Sharp** (2016). A comparative analysis of alternative fuels for Thailand's palm oil industry: A case study for Refuse Derived Fuels (RDF). Energy Sources, Part A: Recovery, Utilization, and Environmental Effects. **Accepted on 28 June, 2016.**
20. Li Liang and **Alice Sharp** (2016). Development of an analytical method for quantitative comparison of the e-waste management systems in Thailand, Laos, and China. Waste Management & Research. Vol 34(11) 1184-1191.
21. Chawanrut Tamikanon and **Alice Sharp** (2018). Quality of soil from agricultural terrace in comparison with other types of land use, a case study in Nan province, Thailand. GMSARN International Journal, Vol. 12, No. 3, September 2018, pp. 145-150.
22. Phonthip Vatwongsathip, Nattharika Rittippant, and **Alice Sharp** (2018). Study on environment impact of tourism industry in historical zone in Meuang district, Nan province, Thailand. GMSARN International Journal, Vol. 12, No. 3, September 2018, pp. 151-157.

Book/Book Chapter/Policy Report

1. **Sharp Alice** and Janya Sang-Arun (2012) A guide for sustainable urban organic waste management in Thailand: Combining Food, Energy, and Climate Co-Benefits. ISBN 978-4-88788-088-7
2. Prasit Wangpakapattanawong Pimonrat Tiansawat **Alice Sharp** (2016). Forest restoration at the landscape level in Thailand. In "Forest Landscape Restoration for Asia Pacific Forests". Edited by S. Appanah. Published by the Food and Agriculture Organization of the United Nations and RECOFTC- the Center for People and Forest. ISBN: 978-92-5-109094-7
3. Thienthong Sopha, Choni Zangmo, and **Alice Sharp** (2018). Participatory Wetland Management: A Case Study of Xe Champhone Wetland, Lao PDR. In Landscape Ecology for Sustainable Society. Edited by S.K. Hong and N. Nakagoshi. Page 197-216. ISBN: 978-3-319-74327-1

National Journal

1. Kum, V., **Sharp A.** and N. Harnpornchai (2004). A System Dynamic Approach for Financial Planning in Solid Waste Management: A Case Study in Phnom Penh City. Thammasat International Journal of Science and Technology (TIJSAT) 9(2):27-34.
2. Sukholthaman Pitchayanin, Kunio Shirahada, and **Alice Sharp** (2016) Towards effective multi-sector partnership: A case of municipal solid waste management service provision of Bangkok, Thailand. The Kasetsart Journal of Social Sciences. Accepted on 5th July, 2016.
3. Mwema Felix and **Alice Sharp** (2016). A survey on pesticide awareness and management practices in Tanzania. GMSARN International Journal vol.10 (2016)121-128.

*GMSARN International Journal is indexed in Thailand Citation Indexed Tier 1, May 4th 2016.

4. Choni Zangmo and **Alice Sharp** (2017). Solid waste generation, composition and management in Paro hotel industry. *Applied Environmental Research* 39(2):15-27.

International Conference

1. **Sharp, A.**, N. Nakagoshi and C. McQuistan (1998). Buffer zone management for sustainable use of resources and forest conservation in Thailand. In *Proceeding of the 41st Symposium of the International Association of Vegetation Science (IAVS)* Uppsala, Sweden.

2. **Sharp, A.** and S. Nontachaiyapoom (2002). The use of scientific method to enhance environmental education in Chiang Rai province, Thailand. In *Proceedings of the International Conference on Environmental Management: Ten years after Rio, 22 - 23 October 2002*, Bangi, Selangor, Malaysia.

3. Kum, V., **Sharp A.** and N. Harnpornchai (2004). Towards Sustaining Municipal Solid Waste Management in Urban Poor Communities in Phnom Penh City. In *Proceeding of the 19th International Conference on Solid Waste Technology and Management*. March 21-24, 2004, Philadelphia, PA U.S.A.

4. Thongbhakdi A., Phutarak, P., and **A. Sharp** (2005). Feasibility study on industrial waste utilization: using sludge as raw material for co-composting. In *Proceeding of the 20th International Conference on Solid Waste Technology and Management*. April 3-5, 2005, Philadelphia, PA U.S.A.

5. Kum, V., **Sharp, A.** and N. Harnpornchai (2005). A System Dynamics Study of Solid Waste Recovery Policies in Phnom Penh City. *23rd International System Dynamics Conference* July 17-21 2005, Boston, USA.

6. Yasantha Abeysundara U. G., Sandhya Babel, and **Alice Sharp** (2006). A life cycle perspective on building floor coverings in Sri Lanka. In *Proceedings of 5th Australian Conference on Life Cycle Assessment*. Melbourne, Australia, November 22-24, 2006.

7. Thongbhakdi A., and **A. Sharp** (2007). Utilization of anaerobic digested sludge for the production of compost. In *Proceeding of the XI International Waste Management and Landfill Symposium*. 1-5 October, 2007, Sardinia, Italy.

8. **Alice Sharp**, Amornpong Thongbhakdi, and Alisa Khunchornyakong (2007). Impact of Urbanization on Environmental Health: A case of Bangkok. In *Proceedings of the International Symposium on Sustainable Urban Environment 2007*. 9-10 November 2007, Tokyo, Japan. pp.96-101.

9. Babel, Sandhya; Suwanchai Nitisoravut; **Alice Sharp**; and Dominica Del Mundo Dacera (2007). Low cost community based treatment unit for floating food vendors and slum community in Thailand. In *Proceedings of the 2nd International Forum on Water Environmental Governance in Asia*, 3-4 December 2007, Beppu, Oita, Japan. pp. 92-97.

10. Babel, S., **Sharp, A.**, Thongbhakdi, A., Zebun N.S., Community participation in pollution abatement and water conservation through bio-monitoring, *The 3rd International Forum on Water Environmental Governance in Asia*, Putrajaya, Malaysia, pp. 132-137, 23-24 October 2008.
11. M. Amin and **A. Sharp** (2008). Model to predict health impact due to flood - a case study in Bangladesh. In Proceedings of the *International Conference on Sustainable Environmental Technology and Sanitation for Tropical Region*, 18-19 November, 2008. Surabaya, Indonesia.
12. **Sharp, A.** and A. Thangbhakdi (2009). Comparative Study on Leachate and Anaerobic Seed Sludge to Generate Electricity Using Single Chamber Microbial Fuel Cells. In Proceedings of the *International Conference on Science, Technology and Innovation for Sustainable Well-Being (STISWB 2009)*, 23-24 July, 2009, Khon Kaen, Thailand. Pp. 70-76.
13. **Sharp, A.**, Thongbhakdi, A. and A. Khunchornyakong (2009). A Comparative study on the Use of Composts Produced from Water Hyacinths, agricultural Wastes, and Animal Dungs as Alternative to Chemical Fertilizer. In the Proceeding of *the 3rd Regional Conference on Natural Resources in the Tropics (NRTop3)*, 3-5 August, 2009, Sarawak, Malaysia.
14. **Sharp, A.**, Khunchornyakong, A. and A. Thongbhakdi (2009). Sustainable Solid Waste Management through Environmental Education: A case Study of Community Along Bang Pa Canal Ratchaburi province, Thailand. In the Proceeding of *the 3rd Regional Conference on Natural Resources in the Tropics (NRTop3)*, 3-5 August, 2009, Sarawak, Malaysia.
15. **Sharp, A.**, Khunchornyakong, A. and A. Thongbhakdi (2009). Local Capacity Building in Solid Waste Management Through Public Participation in Ratchaburi Province, Thailand. In the Proceeding of *2009 International Conference on Social Science and Humanities (ICSSH 2009)*, 9-11 October, 2009. Singapore. Pp. 356-360
16. Supmak, W., Petchsuk A., Opaprakasit P., **Sharp, A.**, and W. Siriwatwechakul (2009) Synthesis and Characterizations of Copolymers of Lactide and Glycidyl Methacrylate: Effects of Synthesis Conditions. In the Proceeding of the *2nd International Conference on Green and Sustainable Innovation (ICGSI)*, 2-4 December, 2009. Chiang Rai, Thailand.
17. Suthawaree, J., Tajima, Y., Kato, S., Khunchornyakong, A., **Sharp, A.**, and Y. Kajii. (2009), Measurement of volatile organic compounds in suburban Bangkok, Thailand: characteristics and influence from combustion related activities. *Eos Trans. AGU*, 90(52) Fall Meet. Suppl., Abstract A21C-0178.
18. Sopha, T. and **A. Sharp** (2013). Sustainable Wetland Management in Lao PDR: A case study of Xe Champhone Wetlands. To be presented at the *3rd International Conference on Ecological, Environmental and Biological Sciences*, April 29-30, 2013, Singapore. (Accepted for oral presentation)
19. Leano, E.P., Babel, S., **Sharp, A.**, and W. Prathumpai (2013). Effects of thermophilic heat pretreatment of mixed inoculum on biohydrogen production from synthetic and sugarcane mill wastewaters. In the Proceedings of the *International Conference on Solid Waste 2013* –

Innovation in Technology and Management, Hong Kong SAR, P.R. China. May 5-9, 2013. Pp. 773-777.

20. Sopha, T. and **A. Sharp** (2013). Wetland Management in Lao PDR: A case study of Bueng Kiat Ngong Wetlands. In the proceeding of the 2nd EnvironmentAsia International Conference. May 15-17, 2013. Chonburi, Thailand.

21. **Sharp, A.**, Sritharet, N., Pongmethakul, A., and S. Jaithieng (2013). Sustainable city indicators for Greater Mae Kong Sub-Region: Case from Thailand and Lao PDR. In the proceeding of the 3rd Asian Conference on Sustainability, Energy and Environment. June 6-9, 2013 Osaka, Japan Pp.678-685.

22. S. Boonpa and **A. Sharp** (2013). Assessment for Sustainable Solid Waste Management in Nakhon Ratchasima City Municipality, Thailand. In the proceeding of the 3rd Asian Conference on Sustainability, Energy and Environment. June 6-9, 2013 Osaka, Japan Pp.694-701.

23. Liang L. and **A. Sharp** (2013). Guidelines for E-waste Environmental Pollution Prevention and Control of China. GMSARN Int. Conference on Green Growth in GMS: Energy, Environmental and Social Issues, 18-20 Dec. 2013. Mandalay, Myanmar.

24., Thao Q. T. and **A. Sharp** (2013). Current status of E-Waste Management in Vietnam: A case study of Ho Chi Minh City, Vietnam. GMSARN Int. Conference on Green Growth in GMS: Energy, Environmental and Social Issues, 18-20 Dec. 2013. Mandalay, Myanmar.

25. **Sharp A.** and S. Boonpa (2013). Sustainable Consumption and Production Policy and Waste Management in Thailand. GMSARN Int. Conference on Green Growth in GMS: Energy, Environmental and Social Issues, 18-20 Dec. 2013. Mandalay, Myanmar.

26. Tran, Thao Quoc, **Alice Sharp**, Jun Nakatani, Yuichi Moriguchi (2014). Forecasting of e-waste generation and its future trend in Vietnam. In Proceedings of the 1st ENRIC International Conference 2014 on Global Climate Change and Sustainability Pathways, 6-7 November 2014, Bangkok, Thailand, 7 p.

27. Sovannara Chea and **Alice Sharp** (2015). Flood Management in Cambodia: Case studies of flood in 2009 and 2011. In Proceeding of the 2015 International Conference on Environment and Civil Engineering (ICEACE'2015) April 24-25, 2015 Pattaya, Thailand. P. 88 -93.

28. Felix. M, and **A. Sharp** (2015). A multi-sectoral survey on awareness and practices of pesticides Application in Tanzania. In Proceeding of the 10thGMSARN International Conference 2015 on Smart Energy, Environment and Community Development in GMS. December 16-18, 2015, Phnom Penh, Cambodia.

29. Tran, T. Q., Nakatani J., Moriguchi Y., and **A. Sharp** (2015). Generation and current management status of WEEE in Vietnam: Case study of Hanoi. In Proceeding of the 10thGMSARN International Conference 2015 on Smart Energy, Environment and Community Development in GMS. December 16-18, 2015, Phnom Penh, Cambodia.

30. **Alice Sharp**, Sandhya Babel, Tshering Gyeltshen, Tsheltrim Pelden and Dechen Dorji (2016). Establishment of integrated Solid Waste Management System in Mongar Town, Bhutan. In the Proceedings of Chemical Biological and Environmental Engineering Vol. 92 Page 98-102.
31. Pitchayanin Sukholthaman, **Alice Sharp**, and Kunio Shirahada (2016) A system dynamics view of attitudinal ambivalence on Solid Waste Management Service Provision. In the Proceedings of Chemical Biological and Environmental Engineering Vol. 92 Page 93-97.
32. Nguyen Thi Phuong Loan, Tran Thi My Dieu, Le Thi Kim Oanh, **Alice Sharp** and Sandhya Babel (2016). Possibilities and challenges to approach zero waste for municipal solid waste management in Ho Chi Minh City. In the Proceeding of the 6th International Conference in Solid Waste Management. November 24-26, 2016. Kolkata, India.
33. **Alice Sharp** and Sirada Pookkasorn (2017). The management of waste from Electrical and Electronic Equipment (WEEE) in Bangkok, Thailand. In the proceeding of the 3rd Conference on Public Health in Asia. April 28-29, 2017. Hiroshima, Japan.
34. **Alice Sharp** and Choni Zangmo (2017). Electronic waste management in selected GMS countries. In the proceeding of the 12th GMSARN International Conference 2017 on Energy Connectivity, Environment, and Development in GMS. November 28-30, 2017. Danang, Vietnam.
35. Choni Zangmo and **Alice Sharp** (2017). Evaluation of environmental performance of different solid waste management scenarios in Paro, Bhutan. In the proceeding of the 12th GMSARN International Conference 2017 on Energy Connectivity, Environment, and Development in GMS. November 28-30, 2017. Danang, Vietnam.
36. Sasima Yoochareon, **Alice Sharp**, Suttisak Soralump, and Jessada Karnjana (2017). Preliminary landslide investigation in view of geology and slope stability of Highway1390, Doi Tung, Chiang Rai, Thailand. In the proceeding of the 12th GMSARN International Conference 2017 on Energy Connectivity, Environment, and Development in GMS. November 28-30, 2017. Danang, Vietnam.
37. Katekanya Tadsuwan, **Alice Sharp** and Jessada Karnjana (2017). The study of the effect of vegetation on slope stabilization for landslide prevention in Thailand. In the proceeding of the 12th GMSARN International Conference 2017 on Energy Connectivity, Environment, and Development in GMS. November 28-30, 2017. Danang, Vietnam.
38. Karnchanok Roongruangsaeng and **Alice Sharp** (2017). Study on awareness and understanding of health protection measures from Haze in Nan Province, Thailand. In the proceeding of the 12th GMSARN International Conference 2017 on Energy Connectivity, Environment, and Development in GMS. November 28-30, 2017. Danang, Vietnam.