CURRICULUM VITAE

Name: Dr. Cheerawit Rattanapan

Position: Associate Professor in Environmental Technology

Program Director of Ph.D in Health and Sustainable Development

Editor-in-Chief of Journal of Public Health and Development

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Academic Background:			
Year of Attendance	University	Degree obtained	
1999 - 2003	Prince of Songkla University	B.Sc. in Education	
		(General Science)	
2003 - 2005	Prince of Songkla University	M.Sc. (Environmental	
		Management)	
2005 - 2009	Prince of Songkla University	Ph.D. (Biotechnology)	
1 October 2013-	Leibniz-Institut für	Research Fellowship	
31 September 2013	Agrartechnik Potsdam-	(Microbial community)	
	Bornim e. V. (ATB)	(wherootal community)	
1 January 2014 –	Vienna University of	Post-doctoral Research	
31 March 2014	Economics and Business	(Sustainable development)	

Area of Interests:

Environmental Management, Environmental Health, Environmental Biotechnology,

Sustainable Development, Occupational Health and One Health

Publications:	
Article	Title
Publications	1. Rattanapan C, Arrykul S, Chevakidagarn P. Dephosphorization of
	Wastewater by Fly Ash from Phuket Incineration Plant.
	CMU. J. Nat. Sci. 2008; 7:115-125.
	2. Rattanapan C, Boonsawang P, Kantachote D. Removal of H ₂ S in
	Down-Flow Biofiltration using Sulfide Oxidizing Bacteria from
	Concentrated Latex Wastewater. Bioresource Techno. 2009; 100:125-130.
	3. Rattanapan C, Boonsawang P, Kantachote D. Effect of H ₂ S and air
	flow rates on pure and consortium culture of sulfide oxidizing bacteria
	biofiltration for H ₂ S . J. Health Res, 2010; 24(suppl):1-6.
	4. Rattanapan C, Kantachote D, Yan R, Boonsawang P.
	Hydrogen sulfide removal using granular activated carbon biofiltration
	inoculated with Alcaligenes faecalis T307 isolated from concentrated latex
	wastewater. Int. Biodeter. Biodegr., 2010; (64): 383-387
	5. Rakkamon T, Chaimay B, Woradet S, Rattanapan C. Health Risk
	Assessment or Exposure to Heavy Metals in Tap Water: A Case study of
	Tamla Village Tap Water System, Lankhoy sub-district, Paprayoom district,
	Phatthalung province. J. Pub Health Develop,2010, 8(2): 44-54 (in Thai).
	6. Wijaya S, Rattanapan C, Chompikul J, Factor Effecting Patients'
	Satisfaction with General Practitioners Consultations at Palembang Health
	Centers, Indonesia, J. Health Res, 2011 25(2): 77-81.
	7. Do M, Ratanapan C , Suksaroj T, Health Risk from Exposure to
	Trihalomethanes in Swimming Pool, J. Pub Health Develop, 2011
	9(2): 208-222 (in Thai).
	8. Honda M, Chompikul J, Rattanapan C, Wood G, Klungboonkrong S. Sharps
	Injuries among Nurses in a Thai Regional Hospital: Prevalence and Risk
	Factors. International Journal of Occupational and Environmental Medicine,
	2011, 2(4): 215-223

Publications	(Con.):	
Article	Title	
Publications	9. Rattanapan C, Sawain A, Suksaroj T, Suksaroj S. Enhanced efficiency	
(Con.)	of dissolved air flotation for biodiesel wastewater treatment by acidification	
	and coagulation processes. Desalination, 2011; 280(1-3): 370-377.	
	10. Rattanapan C, Boonsawang P, Kantachote D. Hydrogen Sulfide	
	Removal from Biogas using Pure and Mixed Cultures of Sulfide Oxidizing	
	Bacteria Biofiltration. Int J Green Energy, 2011, (8): 1-10.	
	11. Rattanapan C, Ounsaneha W. Removal of Hydrogen Sulfide Gas using	
	Biofiltration - a Review. Walailak Journal of Science and Technology,	
	2012, 9(1): 9-18.	
	12. Rattanapan C, TS Thunwadee , W Ounsaneha. Development of Eco-	
	efficiency Indicators for Rubber Glove Product by Material Flow Analysis.	
	Procedia Soc Behav Sci, 2012, 40: 99-106.	
	13. S. Charmondusit, K. Bhaktikul, C. Arunlertaree, W. Wisawapipat,	
	C. Rattanapan, K. Charmondusit. Problem Based Training Program on	
	Industrial Ecology and Environment for the Sustainability Management	
	of Industry. Procedia Soc Behav Sci, 2012, 40: 31-36.	
	14. Muadchim, M,Suksaroj TT, Rattanapan C, Suksaroj C. Biogas production	
	and biochemical methane potential of anaerobic co-digestion from pretreated	
	biodiesel processing wastewater and decanter cake. Thai Environmental	
	Engineering Journal, 2012 26(1): 15-23.	
	15. Rattanapan C, Suksaroj TT, Kantachote D, Rakkamond T, Katemai W.	
	Potential from Biogas Production for Co-digestion of Domestic Wastewater	
	and Food Waste. Health and The Environment Journal, 2012, 3(2): 1-9.	
	16. Shrestha N., Mongkolchati A., Rattanapan C. and Wongsawass S.	
	Assessment of patient satisfaction at a traditional medicine hospital in Nepal.	
	J Pub. Health Dev. 2012; 10(3): 17-29	

Publications	(Con.):	
Article	Title	
Publications	17. Rattanapan C, Thunwadee TS, Wongsawass S, Ounsaneha W. Measure on	
(Con.)	Eco-efficiency of Thai Growing-Fishing Pig Farms. Int J Environ Sci Dev,	
	2013, 4(5): 533-537.	
	18. Rattanapana C, Suksaroj TT, Chumpikul J and Choosong T. Health Risk	
	Assessment of Hydrogen Sulfide Exposure among Workers in a Thai Rubber	
	Latex Industry. Environmentasia, 2014, 7(1): 25-31.	
	19. William C. Phir P, Rattanapan C and Mongkolchat A. Determinants of	
	Postnatal Service Utilisation among Mothers in Rural Settings of Malawi.	
	Health and Social Care in the Community 2015, 22(5): 493-50.	
	20. Akai K, Chompikul J, and Rattanapan C. Rabies preventive behaviors of	
	dog owners in Nakhon Pathom Province of Thailand. J Pub. Health Dev.	
	2015; 13(1): 17-28.	
	21, Sayavong C, Chompikul J, Wongsawass S and Rattanapan C. Knowledge,	
	attitudes and preventive behaviors related to dengue vector breeding control	
	measures among adults in communities of Vientiane, capital of the Lao	
	PDR. J Infect Public Health 2015; 8, 466—473.	
	22. Soe KT, Laosee O, Limsatchapanich S, and Rattanapan C. Prevalence and	
	Risk Factors of Musculoskeletal Disorder among Myanmar Migrant	
	Workers in Thai Seafood Industries. International Journal of Occupational	
	Safety and Ergonomics 2015; 21(4): 539-546.	
	23. Ounsaneha W and Rattanapan C. Defining the Eco-Efficiency of Rubber	
	Glove Products Manufactured from Concentrated Latex in Thailand.	
	Environmental Progress & Sustainable Energy 2016; 35(3): 802-808.	
	24. Hlaing ZN, Mongkolchati A and Rattanapan C. A Household Level	
	Analysis of Water Sanitation Associated with Gastrointestinal Disease in an	
	Urban Slum Setting of South Okkalapa Township, Myanmar.	
	Environmentasia, 2016, 9(2): 91-100.	

Publications	(Con.):	
Article	Title	
Publications	25. Lwin, PM, Rattanapan C, Laosee, O. Nurses' intention to remain	
(Con.)	employed in hospitals: Understanding the shortage in the context of	
	Myanmar. International Journal of Nursing Practice 2017; 23:e12536.	
	26. Philalai T, Rattanapan C , Laosee O. Alcohol Consumption among Adults	
	in Northern Thailand. J. Health Res, 2017; 31(2): 99-107.	
	27. Klunbut P, Mongkolchati A, Ussawarujikulchai A, Ounsaneha W,	
	Rattanapan C. Appropriate Option of Market Solid Waste Management	
	based on the Stakeholder Perspectives: A Case Study in a Central Market of	
	Agriculture Products, Thailand. Journal of Materials and Environmental	
	Sciences 2017 8(7): 2391-2402.	
	28. Ounsaneha W, Rattanapan C and Suksaroj TT. Enhancement of Eco-	
	Efficiency Performance for Tread Product Process by Clean Technology.	
	The Journal of Industrial Technology 2017 13(2): 49-63 (in Thai).	
	29. Ounsaneha W, Kraisin P, Suksaroj TT, Suksaroj C, Rattanapan C.	
	Health Risk Assessment from Haloacetic Acids Exposure in Indoor and	
	Outdoor Swimming Pool Water, Environmentasia, 2017, 10(2): 177-185.	
	30. Taecharungroj V, Suksaroj TT, Rattanapan , C. The place sustainability	
	scale: measuring residents' perceptions of the sustainability of a town,	
	Journal of Place Management and Development, 2018, 11(4): 370-390.	
	31. Ounsaneha W, Janthaphat P, Suksaroj TT, Rattanapan C. Joint	
	benchmarking and eco-efficiency for the sustainable performance of swine	
	production in Thailand, International Journal of Geomate, 2018, 15(49):	
	137-142.	
	32. Ounsaneha W, Chotklang N, Laosee O, Rattanapan C. Predictor of	
	behavior intention to develop a green university in the case of an	
	undergraduate university in Thailand, International Journal of Geomate,	
	2018, 15(49): 162-168.	

Publications	Con.):		
Article	Title		
Publications	33. Soe AK, Rattanapan C, Wongsawass S, Laosee O. Use of insecticide-		
(Con.)	treated nets among pig owners living in Japanese encephalitis endemic area		
	of Northern Myanmar, International Journal of Geomate, 2018, 15(50): 45-		
	50.		
	34. Laosee O, Rattanapan C, Somrongthong R.Physical and cognitive		
	functions affecting road traffic injuries among senior drivers, Archives of		
	Gerontology and Geriatrics, 2018, 78: 160-164.		
	35. Manandhar S, Suksaroj TT, Rattanapan C. The Association between		
	Green Space and the Prevalence of Overweight/Obesity among Primary		
	School Children. International Journal of Occupational and Environmental		
	Medicine,2019, 10(1): 1-10.		
	36. Rattanapan C, Sinchai L, Suksaroj TT, Kantachote, D, Ounsaneha W.		
	Biogas Production by Co-Digestion of Canteen Food Waste and Domestic		
	Wastewater under Organic Loading Rate and Temperature Optimization.		
	Environments, 2019, 6: 16.		
	37. Ounsaneha W, Rattanapan C. Enhancing Efficiency of Sugar Cane		
	Production Process by Clean Technology. Khon Kaen Agriculture Journal,		
	2019, 47(SUPPL. 1): 59-66.		
	38. Laosee O, Sritoomma N, Wamontree P, Rattanapan C, Sitthi-Amorn C.		
	The effectiveness of traditional Thai massage versus massage with herbal		
	compress among elderly patients with low back pain: A randomised		
	controlled trial. Complementary Therapies in Medicine, 2020, 48: 102253.		
	39. Ounsaneha W, Buadit T and Rattanapan C. Assessment of human health		
	impact based on life cycle assessment: A case study of Thai retread tire.		
	IOP Conference Series: Materials Science and Engineering, 2020, 773:		
	012038 .		
	40. Ounsaneha W, Laosee O, Suksaroj TT, Srisamai P, and Rattanapan C.		
	Tourist Behavior of Plastic Waste Reduction in the Coastal Area of Trang		
	Province, Thailand. International Journal of Environmental Science and		
	Development, 2020, 11(4): 165-169.		

Publications	(Con.):		
Article	Title		
Publications	41. Rattanapan C. Ounsaneha W. Environmental impact assessment of Thai		
(Con.)	banana supply chain. International Journal of Environmental Science and		
	Development, 2020, 11(7): 341-346.		
	42. Buadit T, Rattanapan, C. Ussawarujikulchai, Suchiva, K, Papong, S. Ma,		
	HW. 2020. Life cycle assessment of material recovery from pyrolysis		
	Process of end-of-life tires in Thailand. International Journal of		
	Environmental Science and Development, 2020, 11(10): 493-498.		
	43. Laosee, O. Sritoomma N. Wamontree P, Rattanapan C Tansuwanond W,		
	Sitthi-Amorn C. 2020. Functional disability and quality of life in older		
	adults with chronic low back pain. Journal of Pain Management, 2020,		
	13(2): 141-147.		
	44. Ounsaneha W, Rattanapan C, Suksaroj T.T, Kantachote D, Klawech, W,		
	Rakkamon, T. 2021. Biogas production by co-digestion of municipal		
	wastewater and food waste: Performance in semi-continuous and		
	continuous operation. Water Environment Research, 2021, 93(2): 305-315.		
	45. Rattanapan C. Ounsaneha W. Water Footprint Assessment of Thai		
	Banana Production . International Journal of Environmental Science and		
	Development, 2021, 12(5): 151-156.		
	46. Htun, N.N., Laosee, O., Rattanapan, C. Factors that influence menstrual		
	hygiene management in adolescent girls in Mudon Township, Mon State,		
	Myanmar. Journal of Health Science and Medical Research, 2021, 39(3):		
	207–217.		
	47. Tanglai, W., Chen, CF., Rattanapan, C., Laosee, O. The Effects of		
	Personality and Attitude on Risky Driving Behaviour Among Public van		
	Drivers: Hierarchical Modeling. Safety and Health at Work, 2022, 13(2),		
	187–191.		
	48. Rattanapan, C., Ounsaneha, W. The potential for value-added banana		
	production waste under circular economy concept. International Journal of		
	Environmental Science and Development, 2022, 13(3): 92–96.		

Publications	(Con.):	
Article	Title	
Publications	49. Ounsaneha, W, Parunawin, W, Laosee, O, Isoda, N, Rattanapan, C.	
(Con.)	Household environmental practice for prevent and control dengue fever	
	toward one health framework in an endemic area of central region, Thailand.	
	EnvironmentAsia, 2022, 15(2): 34-44.	
	50. Ounsaneha, W., Laosee, O., Suksaroj, T.T., Rattanapan, C. Preventive	
	Behaviors and Influencing Factors among Thai Residents in Endemic Areas	
	during the Highest Epidemic Peak of the COVID-19 Outbreak. International	
	Journal of Environmental Research and Public Health, 2023, 20(3), 2525.	
	51. Ounsaneha, W, Parunawin, W, Laosee, O, Isoda, N, Rattanapan, C.	
	Combined Impact of Omicron Vaccination and Environmental Risk	
	Exposure: A Thailand Case Study. Vaccines, 2023, 11(2), 297.	
	52. Buadit, T., Ussawarujikulchai, A., Suchiva, K. Ma, HW., Rattanapan, C.	
	Environmental impact of passenger car tire supply chain in Thailand using	
	the life cycle assessment method. Sustainable Production and Consumption,	
	2023, 37, 156–168	
	53. Suksaroj, C ., Jearat, K., Cherypiew, N., Rattanapan, C., Suksaroj, T.T.	
	Promoting Circular Economy in the Palm Oil Industry through Biogas Co-	
	digestion of Palm Oil Mill Effluent and Empty Fruit Bunch Pressed	
	Wastewater. Water (Switzerland), 2023, 15(12), 2153.	
	54. Buadit, T., Ussawarujikulchai, A., Suchiva, K, Rattanapan, C. Green	
	productivity and value chain analysis to enhance sustainability throughout	
	the passenger car tire supply chain in Thailand. Journal of Open Innovation:	
	Technology, Market, and Complexity, 2023, 9(3), 100108.	
	55. Trisnasari, Laosee, O., Rattanapan, C. Janmaimool, P. Assessing the	
	Determinants of Compliance with Contribution Payments to the National	
	Health Insurance Scheme among Informal Workers in Indonesia. Journal of	
	Environmental Research and Public Health 2023, 20, 7130.	

Publications (Con.):		
Article	Title	
Publications	56. Laosee, O., Sritoomma, N., Rattanapan, C., Wamontree, P. Effect of	
(Con.)	Fitness-To-Drive and Metacognition on Road Traffic Injury Among Older	
	Taxi Drivers: Hierarchical Modeling. Journal of Applied Gerontolog, 2024,	
	10.1177/07334648241241008.	
	57. Ounsaneha, W., Laosee, O., Rattanapan, C. Influence of Environmental	
	Risk Exposure on the Determinants of COVID-19 Booster Vaccination in an	
	Urban Thai Population. International Journal of Environmental Research and	
	Public Health, 2024, 21, 745.	

Scholarships during study:			
Years	Types	Sources	
2004	Research Grant	The Education of Shell 100 Years Foundation	
2006	Research Grant	The Education of Shell 100 Years Foundation	
2007	Student Exchange	Commission of Education, Thailand.	
2007	Graduate Study Scholarship	Prince of Songkla University Graduate Studies	

Research Internship:			
Courses	Places	Times	
Biofiltration Modeling	Institute of Environmental Science and	3 months	
	Engineering, Nanyang Technological		
	University, Singapore		
Biogas System Research	Institute of Environmental Biotechnology	1 months	
	Department of Agrobiotechnology - IFA		
	Tulln, BOKU - University of Natural		
	Resources and Life Sciences, Vienna,		
	Austria.		

Principle Investigator of Project Research:			
Years	Title	Sources	
February 2010- February 2011	Health Risk Assessment of Exposure to Hydrogen sulfide of staff in Concentrated latex industry	The Asthma Foundation of Thailand	
May 2011- May 2013	The Optimization of Biogas Production from Domestic Wastewater by Co-digestion with Food Waste	The Thailand Research Fund	
August 2011- April 2012	Enhancement of Concentrated Latex Production Process for Rubber Glove Product by Eco-Efficiency	The Thailand Research Fund	
August 2012- July 2012	Enhancing Performance of Tread Product Process and Condom Product Process from Concentrated Latex by Eco- Efficiency	National Research Cousin of Thailand and The Thailand Research Fund	
September 2012- July 2013	Strengthening the Sustainable Development of Pig farms using Eco-efficiency	The Thailand Research Fund	
1 October 2013- 30 November 2013	Microbial community structure in anaerobic co-digestion of domestic wastewater and food waste in the laboratory continuously stirred tank and modified anaerobic baffled reactors	The German Academic Exchange Service	
3 January 2014- 31 March 2014	Eco-efficiency Evaluation of pig farm in Thailand Using Data Envelopment Analysis	Austrian Agency for International Cooperation in Education and Research	
May 2014- December 2015 Appropriate Model for Solid Waste Management of Taladd Thai Phathumthani Province		The Thailand Research Fund	

Principle Investigator of Project Research (Con):				
Years	Title	Sources		
August 2014- July 2015	Eco-efficiency Best Practice of Sugar	National Research		
	Cane Production Industry for Sustainable	Cousin of Thailand and		
	Development by Benchmarking	The Thailand Research Fund		
December 2014- September 2015	Direction Determination of Economic			
	Crop Plantation in the Southern of			
	Thailand toward Sustainable	Mahidol University		
September 2015	Development by Eco-efficiency with			
	Ecological Footprint			
	Enhancement of Green Productivity for			
January 2016-	Sustainable Supply Chain Management of	The Thailand Research		
December 2016	Dairy Cooperatives in the Central of	Fund		
	Thailand by Value Chain Analysis			
	A framework development to promote			
	collective action in community within	United States Agency for		
May 2016-	One Health principle of household	International Development		
September 2017	environment practice to prevent and	(USAID)		
	control dengue fever in Central region of			
	Thailand.			
June 2017	Biogas Production by Co-digestion of Municipal Wastewater and Food Waste in Semi-continuous Operations	Austrian Agency for International Cooperation in Education and Research and Office of the Higher Education Commission, Thailand		
	Enhancement of Green Productivity for			
June 2017-	Sustainable Supply Chain Management of	The Thailand Research		
May 2018	Tire Industry in Thailand by	Fund		
	Value Chain Analysis			

Principle Investigator of Project Research (Con):			
Years	Title	Sources	
	Enhancement of Green Productivity for		
June 2017-	Sustainable Tire Production and Used	The Thailand Research	
May 2018	Tire Management in Thailand by Value	Fund	
	Chain Analysis		
June 2017- May 2018	Option of Sustainable Food Waste	The Thailand Research Fund	
	Management for Large Fresh Markets of		
	Thailand		
December 2018- November 2019	An examination of the factors that		
	influence young drivers' willingness to	Mitsui Sumitomo	
	speed and text while driving for	Insurance Welfare	
	sustainable encouragement of safety	Foundation	
	driving in Thailand.		
	Appropriate Model for Plastic Waste	National Research Cousin of Thailand	
January 2019- December 2019	Management in Coastal Province		
	toward Stakeholder integration and		
	Sustainability : a Case Study of		
	Trang Province.		
	Sustainable Supply Chain Management of		
November 2020-	the Tyre Industry in Thailand by	National Research	
July 2021	Enhancing Green Productivity with Value	Cousin of Thailand	
	Chain Analysis		
	Risk Reduction for Epidemics of the	Mahidol University	
October 2022-	COVID-19 in Thai Urban Cites by		
March 2023	Environmental Risk of Exposure		
	Assessment		
October 2023- November 2024	Critical Success Factors for Epidemics of		
	COVID-19 Prevention and Control in	Mahidol University	
	Thai Urban Cities by Environmental Risk		
	of Exposure Assessment		

Principle Investigator of Project Research (Con):				
Years	Title	Sources		
January 2024- December 2024	Effectiveness Program of Road Safety	Mitsui Sumitomo		
	Literacy for Foreign Visitor Cyclists in a	Insurance Welfare		
	World Heritage Site of Thailand.	Foundation		
	Circular Economy Approach in the	National Research		
April 2024-	Optimization of Biogas Production by	Cousin of Thailand and Mahidol University		
March 2024	Co-digestion between Solid and Liquid			
	Wastes from Thai Fresh Markets			

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