

CURRICULUM VITAE

- Project leader
 Project member

1. Full name: Nguyen Huu Chiem			
2. Date of birth: 12/09/1961		3. Gender: Male	
4. Title (<i>Prof., Assoc. Prof., etc.</i>): Assoc. Prof.		Year conferred: 2004	
Educational degree (<i>PhD, MSc, BSc</i>): PhD		Year obtained: 1994	
5. Position: Senior lecturer			
6. Home address: 91A/3 An Binh ward, Ninh Kieu district, Cantho city, Vietnam			
7. Telephone number:			
Mobile phone: 0084 918181942			
Fax: 0084 71 730 392			
E-mail: nhchiem@ctu.edu.vn			
8. Name of institution: College of Environment and Natural Resources (CENRes)			
Address: Department of Environmental Science, Campus II, 3/2 street, Ninh Kieu district, Cantho City, Vietnam			
Telephone number: 084 7103 830635			
Fax: 0 84 7103 831 068			
E-mail: kmtntn@ctu.edu.vn			
9. Educational profile			
Degree	Educational institution	Specialization	Graduation year
BSc	Cantho University	Agronomy	1983
MSc	Kyoto University	Agro-ecology	1991
PhD	Kyoto University	Agro-ecological environment and Landuse	1994
10. Job records¹			
Duration (<i>from ... to ...</i>)	Job title/position	Employer	Office address
From 1983 to 1988	Lecturer	Cantho University	Faculty of Agriculture, Cantho University
From 1989 to 1994	PhD candidate	Kyoto University	Faculty of Agriculture, Kyoto University
From 1995 to 2007	Head of Department	Cantho University	College of Agriculture and Applied Biology, Cantho University
From 2008 to 2012	Vice Dean, Head of Department	Cantho University	College of Environment and

¹ Full-time and part-time scientific works

			Natural Resources, Cantho University
From 2013 to now	Senior lecturer	Cantho University	College of Environment and Natural Resources, Cantho University

11. Publications relevant to the project within the past 5 years				
No.	Publication title	Place published	Year published	Authors
1	<i>Human factor and tidal influences on water quality of urban river in Can Tho, a main city of the Mekong Delta, Vietnam.</i>	Journal of Environmental Monitoring and Assessment	2014	Co-author
2	<i>Enhancing biogas production by supplementing rice straw</i>	Journal of Science and Technology, Vietnamese Academy of Science and Technology	2014	Co-author
3	<i>Estimated quantity of rice straw its use in some provinces in the Mekong delta region</i>	Journal of Science and Technology, Vietnamese Academy of Science and Technology	2014	Co-author
4	<i>Evaluation the possibility of using rice straw and water hyacinth in the semi-continuous anaerobic fermentation – the application on farm scale polyethylene biogas digesters</i>	Scientific Journal of Cantho University	2014	Co-author
5	<i>Biogas production from rice straw and water hyacinth: effect of size</i>	Scientific Journal of Cantho University	2014	Co-author
6	<i>Semi-continuous anaerobic co-digestion of big manure with rice straw and water hyacinth</i>	Scientific Journal of Cantho University	2014	Co-author
7	Rice straw magement	Tropical	2014	Co-author

	by farmers in a triple rice production system in the Mekong delta Vietnam	Agriculture development		
8	Emission reduction and financial feasibility evaluation of a household biogas CDM project in Vietnam	Irrigation, Drainage and Rural Engineering Journal	2014	CO-author
9	Greenhouse gas emissions derived from rice straw burning and straw-mushroom cultivation in a triple rice cropping system in the	Soil Science and Plant Nutrition	2015	Co-author
10	“Reduction of Greenhouse Gas Emissions in Vietnam through Introduction of a Proper Technical Support System for Domestic Biogas Digesters.	<i>Journal of Sustainable Development</i> .	2015	Co-author
11	Greenhouse Gas Emissions from Rice Straw Burning and Straw-Mushroom Cultivation in a Triple Rice Cropping System in the Mekong Delta	<i>Soil Science and Plant Nutrition</i>	2016	Co-author
12	Rice cultivation reduces methane emissions in high-emitting paddies”. F1000Research. (2018):	F1000 Research	2018	Co-author
13	Effects of different levels of biochar on methane, carbon dioxide production and digestibility of para grass (<i>Brachiaria mutica</i>) in in vitro incubation”.	Can Tho University Journal of Science, special issue: Agriculture	2018	Co-author
14	Methane emission in triple rice cropping:	F1000 earch	2019	Co-author

	patterns and a method for reduction			
15	Avariable-timing, fixed-rate application of cattle biogas effluent to rice using a leaf color chart: microcosm experiments in Vietnam	Soil Science and Plant Nutrition	2019	Co-author
16	Rice Straw: An Alternative for Energy Generation by Anaerobic Co-Digestion to Pig Manure: Environmental Governance and Strategies for Sustainability in the Lower Mekong Basin	Water and Power	2019	Co-author

12. Research projects/programs participating or leading relevant to the field of study within the past 5 years

Title of the project/program leading	Duration <i>(from ... to ...)</i>	Date completed and brief description of results	Category <i>(national, ministry, institutional, collaborative, etc.)</i>
1. Study on Environmental impacts of full-dyke and semi-dyke system in An Giang province, Mekong delta, Vietnam	From 2013 to 2016	Completed	Provincial collaboration
2. Rural Development based on clean development mechanism-CDM	From 2008 - 2015	Completed	JIRCAS-CTU collaboration
3. Sustainable production of biogas from waste rice straw project	From 20013 - 2017	Completed	DANIDA-CTU Collaboration
4. Sustainable application of	From 2016-2019	Completed	JICA-CTU: MODEL JOINT RESEARCH

biochar from green biomass to mitigate greenhouse gases emission from paddy fields and to improve soil ecology in the Mekong Delta			PROJECT
5. To study changes of the farming systems to support elimination of pollutants added to the environment (including GHG)	From 2017-2020	On going	ODA project (JICA-CTU)
Title of the project/program participating	Duration (from ... to ...)	Date completed and brief description of results	Category (national, ministry, institutional, collaborative, etc.)

13. List of publications/projects/programs/research results/technologies relevant to the field of study which have been applied in/transferred to society/industry (if any)

No.	Title of the publication/project/program/research result/technology	Brief description of the application/technology transfer (methods, scales, users, etc.)	Duration of impact
1	<i>Effect of application of biogas-effluent charcoal to ammonnia emission and salad growth</i>	<i>The result showed that ammonia emission from urea treatment (36mgN/pot) was higher than that of mangrove(14mgNH₃/pot) or (13mgNH₃/pot) charcoal materials. As a result, the charcoal gave salad yield (85 g/pot) higher than that of urea treatment (32g/pot). Therefore, biogas effluent charcoal can be used for fertilization, as well as for reducing environmtal pollution. Farmers can make charcoal for themselves and using it to absorb nutrient from their own biogas waste water effluent for fertilization.</i>	2011
2	<i>Using Rhizophora and Melaleuca charcoal absorbing effluent biogas waste water to grow mustard geens</i>	<i>Melaleuca and Rhizophora charcoal absorbed nitrogen and phosphorus effectively at 300g charcoal and 6 litres of wastewater. Post-absorption Melaleuca and Rhizophora charcoal was considered as effective fertilizer for mustard greens' growth rather than inorganic fertilizer.</i>	2012
3	Rural Development based on clean	<i>The project have helped 450 farmer households to develop biogas digester in Cai Rang, Binh Thuy and Phong Dien</i>	2012-2016

	development mechanism-CDM	<i>districts, Cantho city. Vietnam. Through the project, 40 smart farmers have been trained on biogas digester construction by CTU scientists. They can help to transfer their knowledge about biogas digester system to other farmers in the community who want to establish the biogas digester successfully.</i>	
4	Properties of Biochars Prepared from Local Biomass in the Mekong Delta, Vietnam.	<i>Physical and chemical characteristics of biochars prepared from rice husk, melalueca, bamboo and water hyacinth were determined. These biochars could be used for further studies to treat environment pollution and GHG emission</i>	2018
5	Rice plant reduce methane emissions in high-emitting paddies	<i>We found that the rice, in fact, suppressed overall methane emissions in high-emitting paddies. The emission reductions increased with the growth of rice to the maximum tillering stage, then decreased after the heading stage, and finally recoverd.</i>	July, 2019
6	Methane emissions in triple rice cropping: patterns and a method for reductionc	<i>The total emission in a crop season doubled in the second crop, tripled in the third crop, and reset after the annual natural flood of the Mekong river. The emission peaks occurred around 0 to 3 weeks after starting irrigation, then gradually decreased. This suggests that methane was generated by the soil organic matter, because the small rice plants provide little carbon for methanogenesis.</i>	Sep. 2019
7	Effects of Rice Husk Biochar and Calcium Amendment on Remediation of Saline Soil from Rice-shrimp Cropping System in Vietnamese Mekong Delta	Biochar enhanced significantly drainage speed by 4 times compared to the control without biochar application. After leaching, exchangeable sodium percentage (ESP) in the soils was significantly lower in biochar treatments than in the control. Some other chemical indicators (K:Na and Ca:Na ratios) were also higher in biochar treatments. Although both biochars effectively removed salts from the saline soil, biochar with a lower Na+ adsorption capacity, a lower surface area and a higher amount of salts performed better in removing Na+ from soil. Combined application of biochar and CaO at low dose	2019

	was more effective in improving soil properties related to Na ⁺ leaching and ESP.	
14. List of scientific awards relevant to the field of study (if any)		
No.	Award title and brief description	Year awarded
1	Project participants and designated operational entity. Approval of voluntary participation in the proposed CDM project activity, and it contributes to sustainable development in Vietnam by Ministry of Natural Resources and Environment of Vietnam	2012
2		
...		
15. Other relevant scientific achievements (if any)		

Date: October 16, 2019

HEAD OF THE INSTITUTION
(Sign and seal)

PROJECT LEADER/MEMBER
(Sign)