



CURRICULUM VITAE

1. **POSITION** Associate Professor, Director of Institute for the Environmental Science, Engineering & Management
2. **NAME OF FIRM** Institute for the Environmental Science, Engineering & Management (IESEM), Industrial University of Ho-Chi-Minh City
3. **NAME OF EXPERT** LE HUNG ANH
4. **DATE OF BIRTH** 24.04.1971 **CITIZENSHIP** Vietnamese
5. **EDUCATION** 2002-2004: Post doc study at Technical University Dresden, Germany
1998 – 2002: PhD Study, Humboldt University in Berlin, Germany, Topic “Using effective microorganisms for composting of solid wastes from agricultural and horticultural production in Vietnam”; degree “ magna cum laude”, Scholarship of Humboldt University
1992 – 1997: Biotechnology and Food Technology Study (Dipl. Ing.), Humboldt University in Berlin and Technical University Berlin, Germany
Scholarship of Deutsche Akademie fuer Auslandsdienst (DAAD)
6. **COUNTRIES OF WORK EXPERIENCE** Vietnam, Germany, Belgium, Cambodia, Laos
7. **MEMBERSHIP OF PROFESSIONAL BODIES**
 - Member** Vietnam Association for Conservation and Environment
 - Scientific Advisor** Vietnam Farmers Union
 - Founder** Asian Network for Environment and Energy (ANEE)
8. **LANGUAGES AND DEGREE OF PROFICIENCY** Vietnamese: Native Tongue
English: Very Good
German: Very good
9. **CONTACT** 12 Nguyen Van Bao Str, Ward 4, Go Vap Dist., Ho-Chi-Minh City, Vietnam
Telephone: +84 –(0) 988 014 271
lehunganh@iuh.edu.vn; lh.anh.9@gmail.com
10. **EMPLOYMENT RECORD:**
 - From/To** 2004-2009
Employer Duc Minh Co.Ltd. in Hanoi
Position held Director
Environmental protection, Renewable energy, Food sustainability
 - From/To** 2006-today
Employer Vietnam Farmer’s Union
Position held Scientific Adviser
 - From/To** December 2009 - December 2010
Employer Saigon University, Faculty of Environmental Science
Position held Leader of Department of Environment Technology

From/To January 2011 – today
Employer Industrial University of Ho-Chi-Minh City
Position held Director of Institute for the Environmental Science, Engineering & Management

11. WORK UNDERTAKEN WHICH BEST ILLUSTRATES CAPABILITY TO HANDLE THE TASKS ASSIGNED:

Project: **Cultivation of organic rice in Nga Son, Thanh Hoa province**
Winner of the Competition of World Bank in Vietnam “Vietnam Innovation Day 2005 – Environmental Action”

Year: 2005-2007

Location: Nga Son – Thanh Hoa province (North Vietnam)

Client: Farmer

Main Project features: Application the new cultivation method for organic rice, (first time for farmers in Nga Son)

Position: **Project leader**

Activities Performe: Training the farmers for new cultivation methods of organic rice: using compost and herbal pesticide, Monitoring of rice cultivation from seed preparing to harvest, reports, contact to authorities and companies,

Project: **Biological applications in rice cultivation in Cai Be**

Year: 2019-2011

Location: Cai Be district – Tien Giang province (Mekong Delta)

Client: Farmer

Main Project features: Application the new cultivation method for rice cultivation

Position: **Project leader**

Activities Performe: Training the farmers for new cultivation methods of rice: using compost and herbal pesticide, Monitoring of rice cultivation from seed preparing to harvest, reports, contact to authorities and companies,

Project: **Biological applications in rice cultivation in Co Do**

Year: 2011-2012

Location: Co Do district – Can Tho City (Mekong Delta)

Client: Farmer

Main Project features: Application the new cultivation method for rice cultivation

Position: **Project leader**

Activities Performe: Training the farmers for new cultivation methods of rice: using compost and herbal pesticide, Monitoring of rice cultivation from seed preparing to harvest, reports, contact to authorities and companies,

Project: **Strategies for a sustainable restauration of lake Hoan Kiem Hanoi (R&D project Vietnam-Germany), founded by BMBF and MOST**

Year: 2006-2010

Location: Hanoi

Client:	People Committee Hanoi
Main Project features:	R&D for a sustainable restauration of lakes in the city in Vietnam, example Hoan Kiem lake in Hanoi, German and Vietnamese cooperation (BMBF and MOST),
Position:	<u>Project coordinator</u> <u>Leader of work package 5 “sewage sludge treatment”</u>
Activities Performe:	Management board, contracts, workshops, seminars, training courses, monitoring of working package, reports, PR, contact to city government and ministries
Project:	Advanced training courses on climate chance for farmers and agricultural production
Year:	2009-2010
Location:	Hanoi, Danang, Ho-Chi-Minh City
Client:	Leader of Vietnam Farmers Union branch in the provinces
Main Project features:	Basic and advanced know-how of climate chance, global warming, greenhouse gas, human influences, animal agriculture and environmental policy
Position:	<u>Senior Adviser and Teacher</u>
Activities Performe:	Preparing documents, building program
Project:	Development and integration of an innovative process technology for biogas production from rice straw in regional value chains in rural areas in South East Asia under consideration of sustainable development and climate protection – case Vietnam, founded by BMBF and MOST (BIORIST)
Year:	2016-2019
Location:	Tien Giang
Client:	People Committee Tien Giang, Farmer Union
Main Project features:	Biogas production from rice straw. The agricultural areas of the commune and their current use will be studied by a detailed survey of the land use patterns. The quantification of the benefits of the biogas plant towards climate change is part of this project.
Position:	<u>Project leader in Vietnam</u>
Activities Performe :	Management board, contracts, workshops, seminars, training courses, monitoring of working packages, reports, adviser for master and PhD students, contact to province and government
Project:	REmoval of NutriEnts in Wastewater treatment via microAlgae and Biofuel/Biomass production for Environmental sustainability in Vietnam, RENEWABLE project (R&D project Vietnam-Belgium), founded by ARES – Académie de Recherche et d’Enseignement supérieur
Year:	2016-2020
Location:	Ninh Thuan
Client:	Shrimp farms
Main Project features:	The RENEWABLE project (REmoval of NutriEnts in Wastewater treatment via microAlgae and Biofuel/Biomass production for Environmental sustainability in Vietnam) aims to couple wastewater treatment and the production of microalgae-based biomass valorization as an effective way to enhance inorganic nutrients removal (N and P) from aquaculture wastewater and to produce biofuel and animal

Position:

feedstuff from biomass.

Activities

Project leader in Vietnam

Performe:

Management board, contracts, workshops, seminars, training courses, monitoring of working packages, reports, adviser for master and PhD students, contact to province and government

12. AWARDS

- 2002: First Winner of the Competition of Composting Association Berlin-Brandenburg-Sachsen-Anhalt (Guetegemeinschaft Kompost e.V.) on 10year-Jubilee with research work about utilization of agricultural wastes in Vietnam using special microorganism.
- 2005: Winner of the Competition of World Bank in Vietnam "Vietnam Innovation Day 2005 – Environmental Action" with project "Organic rice production using organic fertilizers in Nga Son – Thanh Hoa".
- 2007: Certificate of merit of Vietnam Farmers Union for the excellent consultancy work
- 2008: Campaign medal of Vietnam Farmers Union for the excellent consultancy work
- 2008: Environment Protection Award (EPA 2008) of MONRE for the excellent works in Vietnam
- 2016: Merit of Minister of Industry and Trade for teaching and research achievements.

13. PATENT: Owner of PATENT No. VN 1-0009894 of NOIP (The National Office of Intellectual Property of Vietnam): Composting Technology of Organic Solid Waste Treatment

14. PUBLICATIONS:

LE HUNG ANH. Untersuchung zur Verwertung der Biomasse in Landwirtschaft und Gartenbau Vietnams unter Beruecksichtigung der Kompostierung. ISBN 3-89825-571-9, Berlin, Germany 2002.

LE HUNG ANH, MICHAEL BOEHME. Proceeding Deutscher Tropentag - International Research on Food Security, Natural Resource Management and Rural Development "Rural Poverty Reduction through Research for Development". ISBN 3-86004-182-7, Humboldt University Berlin, Germany.

LE HUNG ANH, MICHAEL BOEHME. Use of different organic wastes as substrate and organic fertilizer for organic farming of horticultural crops. The 1st International Conference on Energy, Environment And Climate Changes in Ho-Chi-Minh. Industrial University of Ho-Chi-Minh City, 24/08/2011

MICHAEL BOEHME, LE HUNG ANH. Advanced Composting Technology for Using Bio-Waste in South East Asia. "Sustainable Vegetable Production in South East Asia", Acta Hort. 958, ISBN 9789066055353, ISSN 0567-7572, ISHS 2012.

LE HUNG ANH. Composting sludge from rubber production with different structure rich materials. 1st Workshop of Asian Network for Environment and Energy. Industrial University of Ho-Chi-Minh City, 24/08/2012.

LE HUNG ANH, et al. Environmentally sound desludging concept for Hoan Kiem Lake in Hanoi, Vietnam. 3th Global Conference on Sustainable Manufacturing - Decoupling Growth from Resource Use. Elsevier, ScienceDirect, ISSN: 2212-8271. Procedia CIRP 40 (2016) 97 – 102.

MICHEL BOEHME, LE HUNG ANH. Sustainable Technology for Using Bio-Waste in Rural and Urban Regions in South- and South-East-Asia. 3th Global Conference on Sustainable

Manufacturing - Decoupling Growth from Resource Use. Elsevier, ScienceDirect, ISSN: 2212-8271. Procedia CIRP 40 (2016) 547 – 550.

LE HUNG ANH et al. Effects of microalgae on nutrient removal from mariculture wastewater in Can Gio District, Ho Chi Minh City, Vietnam. Journal of Vietnamese Environment, Dresden University of Technology, Germany, ISSN 2193-6471 (2016) Vol. 8 No. 1-5.

NGUYEN KHANH HOANG, LE HUNG ANH, MICHEL BOEHME. Application of Biogas Digestate as Biofertilizer for Paddy Rice Cultivation in Southern Vietnam. International Conference on Research on Food Security, Natural Resource Management and Rural Development Bonn, Germany, 20-22.September (2017). ISBN 978-3-7369-9612-0.

NGUYEN KHANH HOANG, LE HUNG ANH, MICHEL BOEHME. Effect of Liquid Digestate of a Biogas Plant using Rice Straw, as Biofertilizer in Paddy Rice Cultivation in Comparison with Mineral Fertilizer in Tien Giang Province, Vietnam. International Conference on Research on Food Security, Natural Resource Management and Rural Development Ghent, Belgium, 17-19.September (2018). ISBN 978-3-8236-1760-0.

PETRA SCHNEIDER, TAMARA AVELLAN, LE HUNG ANH. Water-Energy-Food Nexus and Sustainability. Encyclopedia of Sustainability in Higher Education/Springer Nature Switzerland AG (2018), ISBN 978-3-319-63951-2.

15. Certification:

I, the undersigned, certify to the best of my knowledge and belief that:

This CV correctly describes my qualifications and my experience.

I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.



PGS.TS. LÊ HÙNG ANH

[Signature of expert or authorized representative of the firm]

Date:

May 2nd 2019
Day/Month/Year