

## Staff Handbook: Vo Le Phu

<b>Name</b>	<i>Vo Le Phu</i>		
<b>Post</b>	<i>Dean, Lecturer (responsible for courses: Water Resources Management, Coastal Zone Management, Climate Change, Cleaner Production)</i>		
<b>Academic career</b>	<i>Lecturer</i>	<i>HCMUT-VNU HCM</i>	<i>2000</i>
	<i>Habilitation [German post-doctoral qualification] (subject)</i>	<i>Institution</i>	<i>Year</i>
	<i>Doctorate (Water Resources and Policy Management)</i>	<i>Adelaide University, Australia</i>	<i>Year</i>
	<i>Bachelor's degree in Science (Biology)</i>	<i>Hue University, Vietnam</i>	<i>2008</i>
<b>Employment</b>	<i>Dean</i>	<i>Ho Chi Minh City University of Technology</i>	<i>Sep. 2018 – Present</i>
<b>Research and development projects over the last 5 years</b>	<ol style="list-style-type: none"> <li>1. <i>Source and Mechanism of Arsenic Contamination in Groundwater and Sediment in An Giang province, the Mekong Delta of Vietnam</i> <ul style="list-style-type: none"> <li>- <i>Period: 2014 – 2019</i></li> <li>- <i>Partners: École Polytechnique Fédérale de Lausanne (EPFL, Lausanne, Switzerland); Institut des Sciences de la Terre, University of Grenoble (France) under the auspice of RESCIF/CARE.</i></li> <li>- <i>Amount of funding: 168,00 Swiss franc</i></li> </ul> </li> <li>2. <i>Coastal Erosion and Hazard Management in Western Taiwan and Central Coastline of Vietnam</i> <ul style="list-style-type: none"> <li>- <i>Period: 2017 – 2019</i></li> <li>- <i>Partners: National Taiwan Normal University (NTNU)</i></li> </ul> </li> <li>3. <i>Design and operational evaluation of a brackish water reverse osmosis desalination system powered by photovoltaic system for school's drinking water in coastal areas – A case study in Ba Tri District, Ben Tre Province.</i> <ul style="list-style-type: none"> <li>- <i>Period: 2020 – 2021 (Project ID: B2020-20-08/HĐ-KHCN)</i></li> <li>- <i>Partner: Vietnam National University Ho Chi Minh City</i></li> <li>- <i>Amount of funding: 33,478 USD</i></li> </ul> </li> <li>4. <b>ENabling Humanitarian Attributes for Nurturing Community-based Engineering (ENHANCE)</b> <ul style="list-style-type: none"> <li>- <i>Period: 2019 – 2022</i></li> <li>- <i>Partners: the Erasmus+ Project with Warwick University (UK), University of West Attica (Greece)</i></li> <li>- <i>Amount of funding: €998,705</i></li> </ul> </li> <li>5. <b>GREEN waste management new edUcation System for recycling and environmental protection in asia (GREENUS).</b> <ul style="list-style-type: none"> <li>- <i>Period: 2021 – 2023</i></li> <li>- <i>Partners: the Erasmus+ Project with Sapienza University of Rome (Italy), Hellenic Mediterranean University (Greek), and Uniwersytet Jagiellonski W Krakowie (Poland).</i></li> <li>- <i>Amount of funding: €128.294</i></li> </ul> </li> <li>6. <i>Basic investigation of marine environmental and geological settings from Binh Dinh to Kien Giang</i> <ul style="list-style-type: none"> <li>- <i>Period: 2021 – 2023</i></li> <li>- <i>Partners: Ministry of Natural Resources and Environment (MONRE)</i></li> </ul> </li> </ol>		
<b>Industry collaborations over the last 5 years</b>	<i>Project title</i> <i>Partners</i>		
<b>Patents and proprietary rights</b>	<i>Title</i>		<i>Year</i>

**Important publications over the last 5 years**

**Selected recent publications from a total of 93 peer-reviewed papers:**

1. Dang An Tran, Maki Tsujimura, Nam Thang Ha, Van Tam Nguyen, Doan Van Binh, Thanh Duc Dang, Quang-Van Doan, Dieu Tien Bui, Trieu Anh Ngoc, **Le Vo Phu**, Pham Thi Bich Thuc, Tien Dat Pham (2021). Evaluating the predictive power of different machine learning algorithms for groundwater salinity prediction of multi-layer coastal aquifers in the Mekong Delta, Vietnam. *Ecological Indicators*, **127**(2021), 107790, <https://doi.org/10.1016/j.ecolind.2021.107790>
2. Pham Hung, Trung Van Le, **Phu Le Vo**, Hung Cong Duong and Md. Mostafizur Rahman (2021). Vulnerability assessment of water resources using GIS, remote sensing and SWAT model – a case study: the upper part of Dong Nai river basin, Vietnam. *International Journal of River Basin Management*, DOI: 10.1080/15715124.2021.1901729
3. Lin, T.Y., Van Onselen, V.M., **Vo, L.P.** (2021). Coastal erosion in Vietnam: Case studies and implication for integrated coastal zone management in the Vietnamese south-central coastline. *IOP Conf. Ser.: Earth Environ. Sci.*, **652**(2021), doi:10.1088/1755-1315/652/1/012009.
4. Nguyen, A.H., Nguyen, M.P.L., Pham, N.T.T., Tat, V.M.H., Luu, L.K., **Vo, P.L.** (2021). Health risk assessment of groundwater consumption for drinking and domestic purposes in Xuyen Moc District, Ba Ria – Vung Tau Province, Vietnam. *IOP Conf. Ser.: Earth Environ. Sci.*, **652**(2021), doi:10.1088/1755-1315/652/1/012018.
5. Quang-Khai Ha, **Phu Le Vo**, Chu-Nam Phan, Van-Hung Pham, Viet-Ky Nguyen (2021). Identification of freshwater - saltwater interface in coastal areas using combination of geophysical and geochemical methods: A case study in Mekong Delta, Vietnam. *IOP Conf. Ser.: Earth Environ. Sci.*, **652**(2021), doi:10.1088/1755-1315/652/1/012006.
6. Nguyen, A.H., Pham, N.T.T., Tat, V.M.H., Truong, H.T., **Vo, P.L.** (2021). Application of Entropy weight in groundwater quality index (EWQI) and GIS for groundwater quality zoning in the Southeastern Coastal region, Vietnam. *IOP Conf. Ser.: Earth Environ. Sci.*, **652**(2021), doi:10.1088/1755-1315/652/1/012005.
7. Vo Nguyen Xuan Que, Doan Van Tuan, Nguyen Nhat Huy, **Vo Le Phu** (2021). Design and performance of small-scale reverse osmosis desalination for brackish water powered by photovoltaic units: a review. *IOP Conf. Ser.: Earth Environ. Sci.*, **652**(2021), doi:10.1088/1755-1315/652/1/012024.
8. Tran Dang An, Maki Tsujimura, **Vo Le Phu**, Van Tam Nguyen, Dwight Kambuku, Thanh Duc Dang (2020). Hydrogeochemical Characteristics of a Multi-layered Coastal Aquifer System in the Mekong Delta, Vietnam. *Environmental Geochemistry and Health*, **42**: 661 – 680, <https://doi.org/10.1007/s10653-019-00400-9>.
9. Maria P. Asta, Yuheng Wang, Manon Frutschi, Karen Viacava, Luca Loreggian, Pierre Le Pape, **Phu Le Vo**, Ana Maria Fernandez, Guillaume Morin and Rizlan Bernier-Latmani (2019). Microbially-Mediated Release of As from Mekong Delta Peat Sediments. *Environ. Sci. Technol.*, **53**(17), 10208 -10217.
10. Dang An Tran, Maki Tsujimura, **Le Phu Vo**, Van Tam Nguyen, Le Duy Nguyen and Thanh Duc Dang (2019). Stable Isotopes Characteristics of Water Resources in the Coastal Area of the Vietnamese Mekong Delta. *Isotopes in Environmental and Health Studies*, **55**(6): 566-587, <https://doi.org/10.1080/10256016.2019.1673746>.
11. Tran Thi Nhung, **Vo Le Phu**, Vu Van Nghi, Ho Quoc Bang (2019). Salt intrusion adaptation measures for sustainable agricultural development under climate change effects: A case of Ca Mau Peninsula, Vietnam. *Climate Risk Management*, **23**(2019): 88 – 100, <https://doi.org/10.1016/j.crm.2018.12.002>.

	<p>12. Wang, Y., Le Pape, P., Morin, G., Asta, M.P., King, G., Bartova, B., Suvorova, E., Frutschi, M., Ikogou, M., Vu Hoai Cong Pham, <b>Phu Le Vo</b>, Herman, F., Charlet, L. and Rizlan Bernier-Latmani (2018). Arsenic Speciation in Mekong Delta Sediments Depends on Their Depositional Environment. <i>Environ. Sci. Technol.</i>, <b>52</b>(6): 3431–3439. DOI: <a href="https://doi.org/10.1021/acs.est.7b05177">10.1021/acs.est.7b05177</a></p> <p>13. Matthew C. Reid, Julien Maillard, Alexandre Bagnoud, Leia Falquet, <b>Phu Le Vo</b> and Rizlan Bernier-Latmani (2017). Arsenic Methylation Dynamics in a Rice Paddy Soil Anaerobic Enrichment Culture. <i>Environ. Sci. Technol.</i>, <b>51</b>(18): 10546–10554. DOI: <a href="https://doi.org/10.1021/acs.est.7b02970">10.1021/acs.est.7b02970</a></p> <p>14. Danet Hak, Kazuo Nadaoka, <b>Vo Le Phu</b> (2016). Socioeconomic Conditions and Perceptions of Environmental Risks in the Mekong Delta, Vietnam. <i>Coastal Management</i>, <b>44</b>(6): 1-21. DOI: <a href="http://dx.doi.org/10.1080/08920753.2016.1233796">http://dx.doi.org/10.1080/08920753.2016.1233796</a>.</p> <p><b>International book chapters:</b></p> <p>1. Le Meur Mathieu, <b>Vo Le Phu</b> and Gratiot Nicolas (2021). What is the future of the lower Mekong basin struggling against human activities? A review. In Manning, A.J. (Ed.). <i>River Deltas – Recent Advances</i>. Intech Open, UK (ISBN: 978-1-83880-165-6), DOI: <a href="http://dx.doi.org/10.5772/intechopen.95010">http://dx.doi.org/10.5772/intechopen.95010</a></p> <p>2. Tran Dang An, Maki Tsujimura, <b>Vo Le Phu</b>, Doan Thu Ha and Nguyen Van Hai (2018). Isotopic and Hydrogeochemical Signatures in Evaluating Groundwater Quality in the Coastal Area of the Mekong Delta, Vietnam. Springer International Publishing AG 2018</p>		
<p><b>Activities in specialist bodies over the last 5 years</b></p>	<p><i>The International Conference on Environment, Resources and Earth Sciences 2021 (ICERES 2021)</i></p> <p><i>The International Conference on Environment, Resources and Earth Sciences 2020 (ICERES 2020)</i></p> <p>The 7th Joint Symposium on Chemistry, Environment, Natural Sciences and Technologies (JSCENS-7)</p> <p>The 6<sup>th</sup> International Symposium on Geoinformatics for Spatial-Infrastructure Development in Earth and Allied Sciences (GIS-IDEAS 2012)</p> <p><i>Science and Technology Development Journal (STDJ) – Earth and Environmental Sciences, VNU – HCMC</i></p> <p>International Water Resources Association (IWRA)</p> <p>Great Mekong Sub-region Academic Research Network (GSARN)</p> <p>Vietnam Association of Conservation for Nature and Environment (VACNE)</p>	<p><i>Chairman</i></p> <p><i>Chairman</i></p> <p><i>Member of LOC</i></p> <p><i>Member of Editorial Board</i></p> <p><i>Member</i></p> <p><i>Member</i></p> <p><i>Member</i></p>	<p><i>29 October 2021</i></p> <p><i>1 – 5 December 2020</i></p> <p><i>16 – 20 October 2012</i></p> <p><i>2017 – present</i></p> <p><i>2004 – 2012</i></p> <p><i>2012 – 2017</i></p> <p><i>2017 – present</i></p>