The Hub of World-leading Research and Training in Life of Mine – An Overview of the Sustainable Minerals Institute, University of Queensland (UQ)

Prof. Longbin Huang

Program Leader and Principal Research Fellow, Ecological Engineering of Metal Mine Tailings and Residues, Sustainable Minerals Institute, The University of Queensland, Australia

DATE	24 April (Tuesday)
TIME	10:30am-12:00pm
VENUE	Room No. 201, West building, College of Life Science & Biotechnology, Korea University

PROFESSIONAL QUALIFICATIONS

Section Editor, *Nature Scientific Report*
Section Editor, *Plant and Soil*
Section Editor, *Frontiers in Plant Science*
Coordinating Editor, *Environmental Geochemistry and Health*

SPEAKER'S BIOGRAPHY

Professor Longbin Huang specializes in ecological engineering and rehabilitation of ferrous and base metal mine tailings (e.g., magnetite tailings, bauxite residues (or red mud), Cu/Pb-Zn tailings). He is the program leader of ecological engineering and rehabilitaiton of tailings in Sustainable Minerals Institute, leading multidisciplinary projects on Cu tailings, Pb-Zn tailings, Fe-ore tailings, bauxite residues (red mud) for sustainable rehabilitaiton.

The research is expected to deliver innovative and feasible technology and methodology to rehabilitate tailings - the most costly and challenging domains at mine sites and refineries, in order to significantly improve economic and ecological sustainability of mining and minerals industries in Australia and overseas.

RESEARCH OUTPUTS

Kong, X., Tian, T., Xue, S., Hartley, W., Huang, L., Wu, C., Li, C. (2018) Development of alkaline electrochemical characteristics demonstrates soil formation in bauxite residue undergoing natural rehabilitation. *Land Degradation and Development*, 29 1: 58-67. [IF: 9.787].

Wang, P., Liu, Y., Menzies, N.W., Wehr, J. B., de Jonge, Martin D., Howard, Daryl L., Kopittke, Peter M., Huang, L. (2016) Ferric minerals and organic matter change arsenic speciation in copper mine tailings. *Environmental Pollution*, 218 835-843. [IF: 5.099].

Wijesekara, H., Bolan, N. S., Vithanage, M., Xu, Y., Mandal, S., Brown, S. L., Hettiarachchi, G. M., Pierzynski, G. M., Huang, L., Ok, Y. S., Kirkham, M. B., Saint, C. And Surapaneni, A. (2016). Utilization Of Biowaste For Mine Spoil Rehabilitation. *Advances in Agronomy* (Pp. 97-173). [IF: 4.806].

Wu, S., Hu, Y., Zhang, X., Sun, Y., Wu, Z., Li, T., Lv, J., Li, J., Zhang, J., Zheng, L., Huang, L., Chen, B. (2018) Chromium Detoxification In Arbuscular Mycorrhizal Symbiosis Mediated By Sulfur Uptake And Metabolism. *Environmental and Experimental Botany*, 147 43-52. [IF: 4.369].

CONTACTS
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***** All Interested Are Welcome *****

For further information, please contact Prof. Yong Sik Ok. Free Admission.