



Advanced Application of Biochar: Case Studies

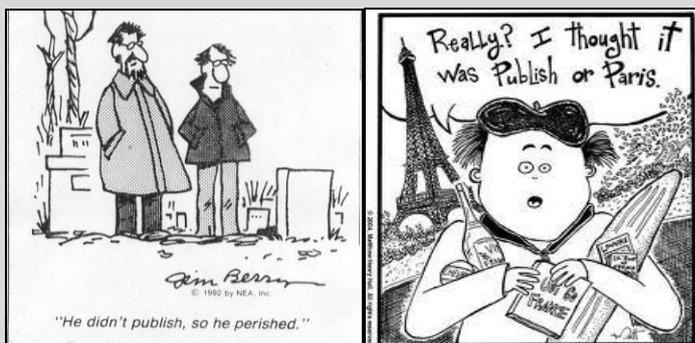
Prof. Hocheol Song

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Date: 14 December 2017 (Thursday)
Time: 11:00 a.m. – 12:30 p.m.
Venue: Room ZS970, 9/F, Block Z,
The Hong Kong Polytechnic University,
181 Chatham Road South,
Hung Hom, Kowloon

ABSTRACT

- The use of biochar has been suggested as a means of remediating contaminated soil and water. The practical applications of conventional biochar for contaminant immobilization and removal however need further improvements. Metal-biochars are commonly used terms to indicate application-oriented, outcome-based biochar modification or synthesis. Applicability and performance of modification methods depend on the type of contaminants.
- In our research group, a few case studies were performed with diverse metal-biochar to achieve various research purposes. For example, Fe-biochar was fabricated via one-step process using paper mill sludge, and used to treat acidic wastewater containing heavy metals. Also, highly porous biochar with distinctive Co phase (Co_9S_8) was made with a new recipe and used to catalytically reduce hard-to-degrade contaminant in water.



SPEAKER'S BIOGRAPHY

Dr. Hocheol Song is an Associate Professor in the Department of Environment and Energy at Sejong University in Korea. He is also the academic director of Graduate School of the University. He received his Ph.D. degree from Clemson University, USA, in the department of Environmental Engineering and Earth Sciences in 2003. After 3 years of career in a national research institute of Korea, he joined in faculty members of Sejong University since 2011. His major teaching and research interests are the chemistry and cleanup of environmentally significant pollutants. His specific research themes are environmental redox processes, soil and groundwater remediation, and biochar synthesis and application. He has published more than 90 international journal papers in the related fields.

*** All Interested Are Welcome ***

For further information, please contact Dr. Dan Tsang at Tel. 2766-6072.
Free Admission. Certificates of attendance will be provided to participants if they attend the whole lecture.