

2nd International Workshop on

Frontiers in Environmental Chemical Research

Date: May 19 (Tue), 2015

Venue: POSCO International Center (Auditorium), Pohang University of Science and Technology (POSTECH), Pohang, Korea

Program

Time	Invited Speaker	Lecture Title
10:00-10:05	President (Postech)	<i>Welcome address</i>
10:05-10:30	Yoon-Seok Chang (Postech, Korea)	Current research activities in SEE and SEAL
10:30-11:10	Pedro Alvarez (Rice Univ., USA)	Nanotechnology-enabled water treatment and microbial control: mechanisms, applications & implications
11:10-11:35	Woojin Lee (KAIST, Korea)	Selective transformation of nitrate by bimetallic catalysts supported by iron oxides
11:35-12:15	Gianluca Li Puma (Loughborough Univ., UK)	Novel microfluidic approach for extremely rapid photochemical transformations of chemical and biological species
12:15-1:30		Lunch
1:30-1:55	Giehyeon Lee (Yonsei Univ., Korea)	Potential applications of zero-valent Mg in environmental remediation: Reductive removal of Cr(VI)
1:55-2:20	Jaesang Lee (Korea Univ., Korea)	Activation of inorganic oxyanions for oxidative degradation of organic compounds: Reaction kinetics and mechanisms
2:20-3:00	Jorge Gardea-Torresdey (U. Texas, El Paso, USA)	Cerium oxide nanoparticles exposure to bean plants modifies physiological characteristics and shows translocation to the next trophic level: Are there implications in plant nutrition and human health?
3:00-3:30		<i>Break</i>
3:30-4:10	Michael Hoffmann (CALTECH, USA)	Quasi-catalytic reactions at the air-water interface in haze aerosol and related nano-droplets
4:10-4:50	T. David Waite (U. New South Wales, Australia)	Redox active metal-quinone interactions in oxic aquatic systems – implications to metal speciation, quinone transformation and reactive oxygen species generation
4:50-5:10	Wonyong Choi (Postech, Korea)	Photooxidation of iodide to molecular iodine in frozen solution: atmospheric implications
		<i>Closing remarks</i>

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