

## 2<sup>nd</sup> 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	<b>President</b> (Postech)	<i>Welcome address</i>
10:05-10:30	<b>Yoon-Seok Chang</b> (Postech, Korea)	Current research activities in SEE and SEAL
10:30-11:10	<b>Pedro Alvarez</b> (Rice Univ., USA)	Nanotechnology-enabled water treatment and microbial control: mechanisms, applications & implications
11:10-11:35	<b>Woojin Lee</b> (KAIST, Korea)	Selective transformation of nitrate by bimetallic catalysts supported by iron oxides
11:35-12:15	<b>Gianluca Li Puma</b> (Loughborough Univ., UK)	Novel microfluidic approach for extremely rapid photochemical transformations of chemical and biological species
12:15-1:30		<b>Lunch</b>
1:30-1:55	<b>Giehyeon Lee</b> (Yonsei Univ., Korea)	Potential applications of zero-valent Mg in environmental remediation: Reductive removal of Cr(VI)
1:55-2:20	<b>Jaesang Lee</b> (Korea Univ., Korea)	Activation of inorganic oxyanions for oxidative degradation of organic compounds: Reaction kinetics and mechanisms
2:20-3:00	<b>Jorge Gardea-Torresdey</b> (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	<b>Michael Hoffmann</b> (CALTECH, USA)	Quasi-catalytic reactions at the air-water interface in haze aerosol and related nano-droplets
4:10-4:50	<b>T. David Waite</b> (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	<b>Wonyong Choi</b> (Postech, Korea)	Photooxidation of iodide to molecular iodine in frozen solution: atmospheric implications
		<i>Closing remarks</i>

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