



Clay : from Natural Environments to Industrial Applications

Session1 Earth Science

Session2 Agriculture and Soil

Session3 Physical Chemistry and Ceramics Session4 Construction and Civil Engineering

Session5 Environmental and Energy

Session6 Biology and Medicine

Abstract Book

6-8 September 2012 Ewha Womans University, Seoul, Korea





Asian Clay Korean Committee

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Environmental and Energy	Dr. Hirohisa Yamada	National Institute for Materials Science	
Biology and Medicine	Prof. Sumio Aisawa	Iwate University	

The 2nd Asian Clay Conference

Thu, 6,	September 2012	Fri, 7 , 9	September 2012	Sat, 8 , September 2012
11:00 ~ 12:00	Registration	09:30 ~ 09:40	Opening	
11:00 ~ 12:45	Meeting of CSSJ	09:40 ~ 10:20	PL-2	
13:00 ~ 13:15	Opening Address	10:20 ~ 10:30	Break	
13:15 ~ 13:55	PL-1		Session 4	
13:55 ~ 14:10	Break	10:30 ~ 10:50	IL-10	
	Session 1	10:50 ~ 11:10	IL-11	
14:10 ~ 14:30	IL-1	11:10 ~ 11:30	IL-12	
14:30 ~ 14:50	IL-2	11:30 ~ 13:30	Poster (Post) Lunch	
14:50 ~ 15:10	IL-3	11:30 ~ 13:15	Meeting of CSSJ	
15:10 ~	Break		Session 5	A.
15:20	Session 2	13:30 ~ 13:50	IL-13	
15:20 ~		13:50 ~	IL-14	
15:40	IL-4	14:10 14:10 ~	12.14	And the second s
15:40 ~ 16:00	IL-5	14:30	IL-15	Seoul City Tour (Separately)
16:00 ~ 16:20	IL-6	14:30 ~ 14:40	Break	
16:20 ~	Break		Session 6	
16:30	Session 3	14:40 ~ 15:00	IL-16	
16:30 ~ 16:50	IL-7	15:00 ~ 15:20	IL-17	
16:50 ~ 17:10	IL-8	15:20 ~ 15:40	IL-18	
17:10 ~ 17:30	IL-9	15:40 ~ 16:00	IL-19	
17:30 ~ 17:40	Closing Remark	16:00 ~ 16:10	Closing Remark	
	International Advisory	16:10 ~ 17:30	Poster Session	
17:40 ~	A di uco est			

Thu, 6, September 2012

	Thu, 6 , September 2012		
Opening Address	13:00 ~ 13:15	Opening Remark Prof. Jin-Ho Choy Center for Intelligent Nano Bio Materials / Ewha Womans University Welcoming Address President Sun-Uk Kim Ewaha Womans University Congratulatory Address Director of Natural Sciences Division, Soo-Jin Kim The National Academy of Sciences, Republic of Korea	
Plenary Lecture	13:15 ~ 13:55	President Se-Won Chang The Mineralogical Society of Korea Prof. Eduardo Ruiz-Hitzky Materials Science Institute of Madrid (ICMM), CSIC, Spain Past-President of the Spanish Clay Society	
Break	14:10 ~ 14:30	Prof. Qinfu Liu China University of Mining & Technology, China Title: Ammonium illite in coal-bearing strata of China and nitrogen	
Session 1 Earth Science (Chair) Prof. Young-Jae Lee, Dr. Tetsuichi Takagi	14:30 ~ 14:50	isotopic geochemistry Prof. Hailiang Dong Miami University, USA Title: Clay Mineral – Microbe Interactions and Implications for Heavy Metal Remediation	
	14:50 ~ 15:10	Prof. Zhifei Liu Tongji University, China Title: Climatic, tectonic, and lithological controls on formation of clay minerals surrounding the South China Sea	
Session 2 Agriculture and Soil (Chair) Prof. Hyun Jung, Prof. Motoharu Kawano	15:20 ~ 15:40	Prof. Motoharu Kawano Kagoshima University, Japan Title: Enhancement of dissolution rate of amorphous silica by interaction with heterocyclic compounds	
	15:40 ~ 16:00	Dr. Yong-Hee Moon National Institute of Agricultural Science and Technology, Korea Title: The Relation between Total Sulfur and Chinese cabbage Stunt in Potential Acid Sulfate Soils	
	16:00 ~ 16:20	Prof. Hyun-Joong Kim Seoul National University, Korea Title: Nano-Materials for Pressure Sensitive Adhesives	
Session 3 Physical Chemistry and Ceramic (Chair) Prof. Eung-Soo Kim, Prof. Jun Kawamate	16:30 ~ 16:50	Prof. Min Wei Beijing University of Chemical Technology, China Title: Assembly of Photofunctional Anions/Layered Double Hydroxide Ultrathin Films: Experimental and Theoretical Investigations	
	16:50 ~ 17:10	Dr. Pilar Aranda Instituto de Ciència de Materiales de Madrid, CSIC, Spain Title: A colloidal pathway to nanoparticles-clay heterostructures Prof. Nithima Khaoranapong	
	17:10 ~ 17:30	Prof. Nithima Khaorapapong Khon Kaen University, Thailand Title: Preparation of semiconductor-clay hybrids and their properties Closing Remark	
Closing	17:30 ~ 17:40	Prof. Jin-Ho Choy Center for Intelligent Nano Bio Materials / Ewha Womans University	

Fri, 7, September 2012

		n, 7, September 2012
Opening	09:30 ~ 09:40	Opening
Plenary Lecture	09:40 ~ 10:20	Prof. Atsuyuki Inoue Chiba University, Japan President of Clay Science Society of Japan Title: Formation and Transformation of Halloysite during Weathering
Break		的复数形式 医克拉克氏 医克拉克氏管 医克克克氏征 医克克氏征 医克克氏征 医克克氏征 医克克氏氏 医克克氏氏征 医克克氏氏征 医克克氏氏征 医克克氏氏征 医克克氏氏征 电电阻 电电阻 电电阻 电电阻 电电阻 电电阻 电电阻 电电阻 电电阻 电电
Session 4 Construction and Civil Engineering	10:30 ~ 10:50	Dr. Horst Hintze-Bruening BASF Coatings GmbH, Germany Title: Layered Nanoparticle Based Organic Coatings
	10:50 ~ 11:10	Dr. Satoru Miyoshi Obayashi Corporation, Japan Title: Experimental Study on Physical Properties of Chemically Altered Compacted Bentonite in Radioactive Waste Repository
Dr. Jung-Yoon Choi, Dr. Satoru Miyoshi	11:10 ~ 11:30	Prof. Seng-Kwan Choi Ulster University, UK Title: Development on structural fire engineering
Lunch	11:30 ~ 13:30	Poster (Post) / Lunch
Session 5 Environmental and Energy (Chair) Prof. Hyoung-Jin Choi, Prof. Hirohisa Yamada	13:30 ~ 13:50	Prof. Tsutomu Sato Hokkaido University, Japan Title: Decontamination of Radioactive Cesium from the Disaster at Fukushima Dai-ichi Nuclear Power Plant
	13:50 ~ 14:10	Prof. Sang-Eon Park Inha University, Korea Title: CO2 Activation and Harnessing over Functionalized Nanocatalysts
	14:10 ~ 14:30	Prof. Makoto Ogawa Waseda University, Japan Title: Organic-inorganic hybrids based on ultrathin oxide layers -Designed nanostructures for molecular recognition
Break	14:40 ~ 15:00	Prof. Atsushi Takahara Kyushu University, Japan Title: Preparation and Characterization of Polymer Nanohybrids from Aluminosilicate Nanotubes
Session 6 Biology and Medicine	15:00 ~ 15:20	Prof. Youjun Deng Texas A&M University, USA Title: Selecting and Modifying Smectites for Aflatoxin Detoxification
(Chair) Prof. Jae-Min Oh, Prof. Sumio Aisawa	15:20 ~ 15:40	Prof. Soo-Jin Choi Seoul Women's University, Korea Title: Toxicological effects of clay minerals vitro and in vivo
	15:40 ~ 16:00	Dr. Jui Chakraborty Central Glass and Ceramic Research Institute, India Title: Anionic nanoclay in drug delivery: what's in fate?
Closing	16:00 ~ 16:10	Prof. Jin-Ho Choy Center for Intelligent Nano Bio Materials / Ewha Womans University
POSTER Session	16:10 ~ 17:30	Poster Presentation
Dinner	17:30 ~	BANQUET

Registration

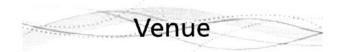
Registration Desk-On-Site Information

Person who participates in the conference on the day, Please find the registration desk which will be located in the LG Convention Hall in Ewha Womans University. The staff will serve for queries and late registrations.

Registration

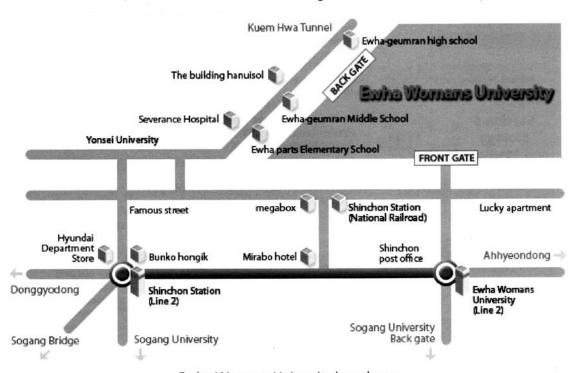
Registration fee for Participants includes access and availability to

- Admission to the Exhibition
- Admission to All Scientific Sessions
- Conference Materials
- Coffee and some cookies
- Lunch on 7th September
- Banquet on 7th September
- Small souvenirs



1) Conference Place

LG Convention Hall, International Education Building, Ewha Womans University, Seoul, Korea

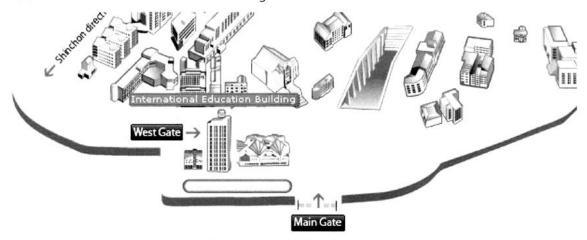


Ewha Womans University by subway



Floor B1 LG Convention Hall in International Education Building

International Education Building has two lower level with 14 higher level with International conference hall, Interpretation room, Translation room and Seminar rooms with world best qualities to upbring the International experts and design industry. It is perfect place to hold conferences and events. It provides pleasant rooms and clean facilities. The conference will be held B1 at International Education Building.



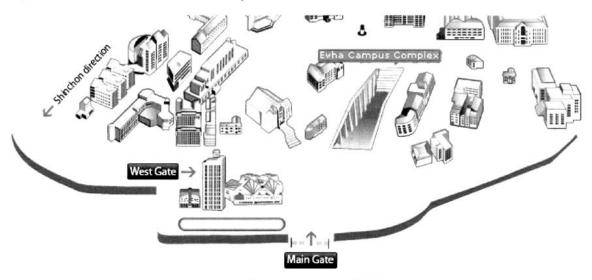
International Education Building from the Main Gate



International Education Building

Ewha Womans University

2) Poster Presentation & Reception Place



Ewha Campus Complex (ECC)