

# Conference Program

June 1

Room A

16:30 Opening

*Chairs: Y.Adachi, K. Kaneko*

16:40 1A01 **Plenary:** Luuk K. KOOPAL

HUMICS, SPECIAL COMPONENTS

17:10 1A02 **Keynote:** Kunitsugu MORISHIGE

Capillary Condensation in Ordered Mesoporous Materials

17:30 1A03 **Keynote:** Juhui QU, H. He, M. Yang

Mirco-interface Processes and Application in the Transformation and Control of Environmental Pollutants

Room E & F

18:00 Welcome Mixer

June 2

Room A

*Chairs: H. Kanoh, S. Kataoka, L. K. Koopal*

9:00 2A01 **Plenary:** Katsumi KANEKO, T. Ohba, C. Yang, Y. Tao, N. Kojima, Y. Nobuhara, T. Konishi, T. Fujikawa, M. Yudasaka, S. Iijima, H. Kanoh

Structure of ions and molecules confined in carbon nanospaces

9:30 2A02 **Keynote:** Minoru MIYAHARA

Phase Behavior of Simple Fluid confined in Nanospace

— Finding Phase Diagram and Exploring into MOF Nanospace —

9:50 2A03 **Keynote:** Menachem ELIMELECH

Antibacterial Effects of Carbon Nanotubes

10:10 2A04 **Keynote:** Hajime TAMON

Control of Morphology and Nanostructure of Carbon Cryogels

10:30 2A05 **Keynote:** Takeo YAMAGUCHI

Micro pore filling membranes and their unique performances

~from Bio-inspired materials to polymer electrolyte fuel cells~

Room A	10:50 Coffee Break				
	<i>Chairs: J. Qu, A. Satsuma, H. Tamon</i>				
	11:10 2A06	<b>Keynote:</b> <u>Tomohisa YOSHIOKA</u> Gas permeation properties through ultra microporous inorganic membranes			
	11:30 2A07	<b>Keynote:</b> <u>Koichi EGUCHI</u> , S. Suzuki, T. Matsui, R. Kikuchi Reversible NO <sub>x</sub> Sorption-Desorption on Pt/mixed oxides			
	11:50 2A08	<b>Keynote:</b> <u>Kei INUMARU</u> Mesoporous silica-based composite materials as molecular selective photocatalysts for purification of water			
Room A	12:10 2A09	<b>Keynote:</b> <u>Robert Stephen BOWMAN</u> Surfactant-Modified Zeolite and Its Application to Treatment of Oilfield Wastewaters			
	12:30 Lunch				
	<b>Chairs:</b> <u>K. Hori, W. Lv</u>				
	14:00 2A11	<b>Keynote:</b> <u>Hisao MORISAKI</u> Consideration about Bacterial Attachment as Soft Colloidal Particles			
	14:20 2A12	<u>Hiroyuki SHINTO</u> , Y. Aso, J. Tsujimura, Y. Ohta, M. Ito, K. Higashitani Adhesion, uptake, and cytotoxicity of engineered particles for living cells			
Room A	14:40 2A13	<u>Taisuke OHTSUKA</u> , D. Nakai, Y. Nakamura, H. Morisaki, I. Yoshinaga, I. Imai Algal assemblages on submerged reed stems and their influence on microbial activities			
	15:00 2A14	<u>Melba Padua ORTEGA</u> , T. Hagiwara, H. Watanabe, T. Sakiyama Factors affecting adhesion of Staphylococcus epidermidis cells on stainless steel surface			
	15:20 Coffee Break				
	<i>Chairs: H. Morisaki, H. Shinto</i>				
	15:40 2A15	<u>Ji-Zheng HE</u> Interactions of soil macromolecules and microbial DNA isolation			
June 2	16:00 2A16	<u>W. Lv, Y. Zhang, Min YANG</u> The impact of cell surface properties on the stability of inoculated yeast strains in a biological system used for treating high-strength oil-containing wastewater			
	16:20 2A17	<u>Takehiko TSURUTA</u> , Y. Aiba, T. Hirajima, K. Sasaki Biosorption of some heavy metals using microorganisms			

Room A	<p>16:40 2A18 L. Fang, P. Cai, X. Rong, W. Liang, <u>Qiaoyun HUANG</u> Determination of Copper and Cadmium Binding on Bacterial Cells by Chemical Modifications and Potentiometric Titration</p>
Room B	<p><i>Chairs: M. Matsukata, A. Sineva</i></p> <p>14:00 2B11 <b>Keynote:</b> <u>Taku IIYAMA</u>, S. Ozeki The Direct Determination of Intermolecular Structure of Pollutants in Micropore Using <i>in situ</i> X-Ray Diffraction</p> <p>14:20 2B12 <u>Mathias FLÖRSHEIMER</u>, K. Kruse, R. Polly, B. Schimmelpfennig, R. Klenze, T. Fanghänel Speciation and Hydration of Mineral Surfaces Determined at the Molecular Level</p> <p>14:40 2B13 A. Kondo, H. Noguchi, H. Kajiro, A. Tohdoh, Y. Hattori, W. Xu, M. Inoue, T. Sugiura, K. Morita, H. Tanaka, T. Ohba, K. Kaneko, <u>Hirofumi KANOH</u> CH<sub>4</sub> Storage and CO<sub>2</sub> Separation through Expansive Modulation of a Porous Coordination Polymer Sample</p> <p>15:00 2B14 <u>Yan CHENG</u>, A. Kondo, H. Noguchi, H. Kajiro, K. Urita, T. Ohba, H. Kanoh, K. Kaneko The Change of morphology and CO<sub>2</sub> adsorptivity of a Cu-MOF on Rehydration</p> <p>15:20 Coffee Break</p> <p><i>Chairs: M. Flösheimer, H. Kanda</i></p> <p>15:40 2B15 <u>Satoshi WATANABE</u>, S. Mizuta, T. Yamamoto, and M. Miyahara Stripe Pattern Formation on Hydrophilic Surfaces by Convective Self-Assembly</p> <p>16:00 2B16 <u>Koji TSUCHIYA</u>, K. Fujiwara, T. Konno, K. Itani, T. Ito, T. Matsuura, K. Ohkawa, K. Tsubone, K. Sakai, H. Sakai, M. Abe Ultrasound imaging of antibody-labeled microbubbles</p> <p>16:20 2B17 <u>Alissa V. SINEVA</u>, A. M. Parfenova Adsorption of Ionic and Non-ionic Surfactants on Shungite</p> <p>16:40 2B18 K. Sawamura, Y. Sekine, E. Kikuchi, <u>Masahiko MATSUKATA</u> Adsorption of water and methanol on ZSM-5 zeolite</p>
Room E	<p><i>Chairs: M. Fukushima, M. Ogura</i></p> <p>14:00 2E11 <u>Hisao HIDAKA</u>, H. Honjo, T. Koike, T. Oyama, N. Serpone Wastewater treatment: TiO<sub>2</sub> Photoassisted Degradation of the Binary Systems of Cationic/Anionic surfactants and their Components in Aqueous Dispersions</p>

June 2

Room E

Room E	14:20	2E12	<u>Xu ZHAO</u> , H. Liu, J. Qu Photoelectrocatalytic Degradation of Organic Contaminants at Novel Electrodes
	14:40	2E13	C. Chuang, <u>Ming-Chun LU</u> Oxidation of trichloroethylene with persulfate in the presence iron oxide-coated sand
	15:00	2E14	<u>Chun HU</u> , J. Guo, J. Qu, X. Hu Photocatalytic degradation of pathogenic bacteria with AgI/TiO <sub>2</sub> under visible light irradiation
	15:20		Coffee Break
			<i>Chairs: R. S. Bowman, K. Eguchi</i>
	15:40	2E15	<b>Keynote:</b> <u>Masaru OGURA</u> K-doped Microporous Tectoaluminosilicate for Soot Combustion
	16:00	2E16	Y. Saito, K. Shimizu, T. Nobukawa, N. Miyoshi, <u>Atsushi SATSUMA</u> In-situ FT/IR Study on Dynamics of Stored Nitrates on Pt/Ba/MO <sub>x</sub> (M=Al, Zr, Si, Mg)
	16:20	2E17	<b>Keynote:</b> <u>Takashiro MUROI</u> Role of Zeolite for Air Pollution Control
	16:40	2E18	<b>Keynote:</b> <u>Masami FUKUSHIMA</u> Detoxification of organic pollutant by multi-functionalities of humic substances
			<b>Room F</b>
Room F			<i>Chairs: M. Barczak, S. Nagao</i>
	14:00	2F11	C. Tokoro, Y. Yatsugi, <u>Daisuke HARAGUCHI</u> , A. Otsuki, S. Owada, H. Sasaki Removal mechanism of dilute As(V) or F(I) in wastewater using Fe(III) or Al(III) hydroxides co-precipitation method
	14:20	2F12	<u>Keiko SASAKI</u> , H. Nakano, W. Wilopo, T. Hirajima SPECIATION OF ARSENIC IN TREATMENT OF GROUNDWATERS SPIKED WITH ARSENITE USING PERMEABLE REACTIVE MATERIALS
	14:40	2F13	<u>Biplob Kumar BISWAS</u> , J. Inoue, K. Inoue, H. Harada, K. Ohto, H. Kawakita Use of orange waste and pectic acid gel for arsenic removal
	15:00	2F14	<u>M. Seredych</u> , <u>Teresa J. BANDOSZ</u> Removal of Ammonia on Graphite Oxides
	15:20		Coffee Break
			<i>Chairs: K. Sasaki, T. Wajima</i>
	15:40	2F15	<u>Olga L. GASKOVA</u> SURFACE PRECIPITATION MODELS FOR THE SORPTION OF HEAVY METALS ON CALCITE IN DRAINAGE FROM MINING DISTRICTS

June 2

Room F	16:00	2F16	C. Tokoro, S. Owada, A. Otsuki, T. Shiozawa, <u>Sei YUKI</u> Lead removal from a contaminated soil in shooting range by combining surface grinding and acid leaching
	16:20	2F17	<u>Mariusz BARCZAK</u> , A. Dąbrowski, S. Pikus Removal of mercury ions from wastewaters by SBA-15 organosilicas
	16:40	2F18	H. Sakai, <u>Anatoly A. ZINCHENKO</u> , S. Murata Purification of Heavy Metal Ions from Aqueous Solutions by Incorporation into DNA-Surfactant Complexes

Room C & D	Room C & D		
	17:30	Poster session	

Room A	June 3		
	Room A		
			<i>Chairs: J. F. L. Duval, Mo. Kobayashi, K. Kurihara</i>
	9:00	3A01	<b>Plenary:</b> <u>Michal BORKOVEC</u> Colloid Stability: Sixty Years after Verwey and Overbeek
	9:30	3A02	<b>Keynote:</b> <u>Nataliya MISHCHUK</u> The state of interface and nearest layers of water and its influence on interparticle interaction
	9:50	3A03	<b>Keynote:</b> <u>William DUCKER</u> , C. Honig Lubrication Forces in Squeeze Films
	10:10	3A04	<b>Keynote:</b> <u>Ko HIGASHITANI</u> Molecular-scale Structure on Surfaces and their Interaction, Adhesion and Friction in Solutions
	10:30	Coffee Break	
			<i>Chairs: W. Ducker, M. Elimelech, K. Higashitani</i>
	10:50	3A05	<b>Keynote:</b> <u>Kazue KURIHARA</u> Polyelectrolytes at Solid-Liquid Interface Studied by Surface Forces Measurement
	11:10	3A06	<b>Keynote:</b> <u>Katsutoshi HORI</u> Bacterial adhesion and cell surface structure
	11:30	3A07	<b>Keynote:</b> <u>Kenta OOI</u> Ion-sieve Adsorbents for Selective Removal of Minor Ions from Aqueous Solutions
	11:50	3A08	<b>Keynote:</b> <u>David WAITE</u> , A. L. Rose, S. Garg, M. Fujii Generation of the superoxide radical anion at biological interfaces and impact on iron acquisition by aquatic organisms

12:10 Lunch (Syogoin)

Room A

*Chairs: M. Ishiguro, K. Hayakawa*

- 14:40 3A11 **Keynote:** M. Brigante, G. Zanini, Marcelo AVENA  
The dissolution kinetics of humic acid particles
- 15:00 3A12 Dongsheng WANG, M. Yan, J. Qu, C. W.K. Chow  
Particle-particle interaction in water treatment: Role of Coagulant Speciation and Hydrolysis  
Kinetic on NOM removal
- 15:20 3A13 Takumi SAITO, S. Nagasaki, S. Tanaka  
Evaluation of the electrostatic potential of a humic acid molecule by a fluorescence quenching technique
- 15:40 3A14 Krisztina KOVACS, A. Gáspár, Ph. Schmitt-Kopplin, E. Tombácz  
Acidic functionality of humic and fulvic acids isolated from deep aquifers
- 16:00 Coffee Break

*Chairs: M. Avena, D. Wang*

- 16:20 3A15 **Keynote:** Katumitu HAYAKAWA, M. Matsuda, Y. Muroi  
Utilization of Surfactant Binding for Characterization of Humic and Fulvic Acids
- 16:40 3A16 Munehide ISHIGURO, L. K. Koopal  
Binding of Surfactants to Polystyrene Sulfonate, Humic Substances and High-Humic Soil
- 17:00 3A17 Kenichi NAKASHIMA, S. Xing, T. Miyajima  
Interaction between humic substances and heavy metals as studied by two-dimensional correlation fluorescence spectroscopy
- 17:20 3A18 Seiya NAGAO, M. Aoyama, A. Watanabe, T. Tanaka  
Complexation of Am with size-fractionated soil humic acids

Room B

*Chairs: K. Nakamura, T. Nashima, D. Waite*

- 14:40 3B11 X. Wu, Xiaopeng GE, D. Wang, H. Tang  
Distinct mechanisms of particle aggregation induced by alum and PACl: Floc structure and DLVO evaluation
- 15:00 3B12 H. Kudoh, Tohru MIYAJIMA, Y. Adachi  
Structures of tideland sediment flocs in Ariake sea

Room A

June 3

Room B

RoomB	15:20	3B13	<u>Jr-Lin LIN</u> , C.-J. M. Chin, C. Huang, J. R. Pan, Dongsheng Wang Coagulation behavior of Al <sub>13</sub> aggregates
	15:40	3B14	<u>Warmadewanthy</u> , C.-J. Chang, <u>J. C. LIU</u> Precipitation Flotation of Phosphate from Water
	16:00	3B15	<u>Qingchun YUAN</u> , R. A. Williams, S. Biggs Manufacturing Microcapsules for Controlled Release
	16:20	3B16	<u>Akira OTSUKI</u> , D. Gjergj, T. Fujita Effects of particle size and its distribution on size measurements of fine particles by means of interactive force apparatus
	Room E		
June 3	<i>Chairs: T. Kunitake, T. Muroi</i>		
	14:40	3E11	<u>S. Wei</u> , <u>Huijuan LIU</u> , J. Qu Preparation and characterization of a novel silica aerogel as adsorbent of toxic organic compounds
	15:00	3E12	<u>Hai ZHANG</u> , G. Pan, K. Kurumada Hybrid Glass for Removal of Phenol in Wastewater
	15:20	3E13	<u>M. D. G. de Luna</u> , <u>WARMADEWANTHI</u> , J. C. Liu Combined treatment of polishing wastewater and fluoride-containing wastewater from a semiconductor manufacturer
	15:40	3E14	<u>Hiroshi SAKAGUCHI</u> , A. Kawai Essentials for Designing Recovering Materials of Oil in Water
	16:00	Coffee Break	
	<i>Chairs: H. Hidaka, K. Inumaru</i>		
	16:20	3E15	<u>Gordon C. C. YANG</u> , S.W. Chan, T.C. Peng REMOVAL OF CHLORINATED HYDROCARBONS BY NANOSCALE [Fe <sub>3</sub> O <sub>4</sub> ]MgO
	16:40	3E16	<u>Seung-Woo LEE</u> , N. Takahara, T. Kunitake Sensitive binding of bisphenol A in TiO <sub>2</sub> ultrathin films: a combination of molecular imprinting and host-guest interaction
	17:00	3E17	<u>Takuji YAMAMOTO</u> , Y. H. Kim, T. Ohmori Synthesis of monodisperse carbon microspheres as adsorbents for detecting aqueous organic pollutants
	17:20	3E18	<u>Sho KATAOKA</u> , T. Yamamoto, A. Endo, M. Nakaiwa, T. Ohmori Synthesis of Mesoporous Carbon Thin Films

Room F

*Chairs: T. Kawanishi, Y. Mori*

- 14:40 3F11 Chih-Hsiang LIAO, J. Anotai, C. Ruangchanikom  
Evaluation of complete nitrate removal by Fe<sup>0</sup>/CO<sub>2</sub>, air/water lifted fluidized sand bed reactor, and air stripping in series
- 15:00 3F12 Abul Hasnat Md. SHAMIM, H. R. Khan, T. Akae  
Potentiality of Basic Slag for the Remediation of Soil Acidity and Changes in Exchangeable Cations in Acid Sulfate Soils under Various Moisture Regimes
- 15:20 3F13 Harunor Rashid KHAN, S. A. Lipi  
Assessment, Purification and Phytoremediation Strategies for the Pollution Arising from Lead, Zinc and Cadmium Released through Industrial Effluents
- 15:40 3F14 Delphine CHARRIÈRE, Z. Pokryszka, P. Behra  
Thermodynamic and kinetic processes at coal interface for CO<sub>2</sub> geological storage

June 3  
Room F

16:00 Coffee Break

*Chairs: D. Charrière, H. Liu*

- 16:20 3F15 Ken-ichi KURUMADA, H. Okubo, K. Egusa  
Nanofoaming in silica glass matrix by instantaneous heating
- 16:40 3F16 Takeshi UMETSUBO, T. Hayakawa, K. Kurumada  
Optimum conditions for hybridization of epoxy resin and silica
- 17:00 3F17 Toshio SAKAI, H. Enomoto, H. Sakai, M. Abe  
Surfactant- and reducer-free metal nanoparticle synthesis in aqueous solutions:  
Particle size, shape and colloidal stability
- 17:20 3F18 Yoshihiro KAMIMURA, K. Kurumada, G. Pan  
Å-scale droplets of extractant in glass matrix

18:00 Cultural Event (Room A)

18:30 Banquet (Room B & C & D)

June 4

Room A

*Chairs: M. Borkovec, H. Ohshima, T. Yamaguchi*

- 9:00 4A01 **Plenary: Masao DOI**  
Electrokinetic Boundary Condition Compatible with the Onsager Reciprocal Relation in the Thin Double Layer Approximation

June 4  
Room A

- 9:30 4A02 **Keynote:** Ryoichi YAMAMOTO, S. Yamamori, Y. Nakayama, K. Kim  
Direct Numerical Simulations for Electrokinetics of Colloids
- 9:50 4A03 **Keynote:** Jérôme F. L. DUVAL  
Monitoring the electrochemical reactivity of pyrite/humics/electrolyte solution interface by electrokinetics of the second kind
- 10:10 4A04 **Keynote:** Toshinori TSURU  
Permeation and diffusion through nanoporous inorganic membranes

10:30 Coffee Break

*Chairs: M. Doi, E. R. Gruber, Y. Takata*

- 10:50 4A05 **Keynote:** Akihiko TANIOKA  
TRANSPORT PHENOMENA ACROSS MEMBRANES IN SOLUTION
- 11:10 4A06 **Keynote:** Hiroyuki OHSHIMA  
Effective viscosity of a suspension of soft particles
- 11:30 4A07 **Keynote:** Kaoru TSUJII  
Fractal Materials and Their Functional Properties
- 11:50 4A08 **Keynote:** Arie de KEIZER  
Antifouling surfaces obtained by adsorption of complex coacervate core micelles
- 12:10 4A09 **Keynote:** Kenichi SAKAI  
Sugar-Based Gemini Surfactants

12:30 Lunch

*Chairs: A. Tanioka, T. Tsuru*

- 14:00 4A11 **Keynote:** Isamu MORIGUCHI, H. Yamada  
High-rate Ion-transportable Nanoporous Carbons as a High Performance Electric Double-layer Capacitor Material
- 14:20 4A12 **Keynote:** Yasushi MORI, N. Higashi  
Controlling Solute Transport Process in Soils using Dual-Characteristics of Soil Pore System
- 14:40 4A13 **Keynote:** Kiyoharu NAKATANI  
Diffusion in nanometer-sized pores studied by single microparticle injection and absorption microspectroscopy
- 15:00 4A14 **Keynote:** Syuntaro HIRADATE, H. Murano, A. Furubayashi, T. Otani  
Adsorption of phenoxyacetates on colloids of a humus-rich Andosol

15:20 Coffee Break

June 4	Room A
	<i>Chairs: T. Terao, T. Yoshioka</i>
	<p>15:40 4A15 <b>Keynote:</b> <u>Mitsuhiko FUKUDA</u>            Interaction of a small molecule with polyisoprene surface studied by molecular simulations</p> <p>16:00 4A16 <u>Elise ROTUREAU</u>, J. F. L. Duval, H. P. van Leeuwen            Dynamic metal sorption by charged polysaccharides</p> <p>16:20 4A17 <u>Kazuho NAKAMURA</u>, S. Fukada, K. Matsumoto            Fouling monitoring during Microfiltration of surface water and humic acid suspension by streaming potential measurement</p>

Room B	<b>Room B</b>	
	<i>Chairs: S. A. Bradford, K. Suto</i>	
	14:00 4B11 <u>Michikazu TAKAHASHI</u> , D. Kawasaki, T. Saito, I. Shimizu, S. Nagasaki, S. Tanaka Studies on matrix diffusion of colloid in a fractured medium	
	14:20 4B12 <u>Philippe LE COUSTUMER</u> , B. Eloifi, F. Huneau, F.v.d. Kammer, M. Baalousha Physical speciation of mobile trace elements by natural colloids	
	14:40 4B13 <b>Keynote:</b> <u>Erwin KLUMPP</u> Transport und deposition of <i>Pseudomonas fluorescens</i> in porous media: Role of the cell concentration and morphology	
	15:00 4B14 <u>Yuki SHIMOJO</u> , Y. Inoue, A. Katayama Development of Two-Region, Three-Site Model for Bacterial Transport in Saturated Porous Media	
	15:20 Coffee Break	
	<i>Chairs: K. Kawamoto, E. Klumpp</i>	
	15:40 4B15 <b>Keynote:</b> <u>Scott A. BRADFORD</u> , S. Torkzaban, F. Leij, N. Toride, J. Simunek, M. Th. van Genuchten A New Paradigm for Colloid and Colloid-Facilitated Transport and Retention in Porous Media	
	16:00 4B16 <u>Y. Kamio</u> , K. Tabata, <u>Yuko HATANO</u> A CTRW Approach to Column Adsorption Tests	
	16:20 4B17 <u>Ursula ALONSO</u> , T. Missana, A. Patelli, D. Ceccato, N. Albaran, M. García-Gutiérrez, T. López - Torrubia, V. Rigato Quantification of heterogeneous colloid retention on the granite surface under varying chemical conditions	

Room E	Room E		
	<i>Chairs: J. K. Lee, A. de Keizer</i>		
	14:00	4E11	<u>Marta SZEKERES</u> , T. Körtvélyesi, I. Dékány, E. Tombácz, R. Schoonheydt Investigation of the adsorption of cationic proteins on smectite clays
	14:20	4E12	<u>Kazuya MORIMOTO</u> , T. Sato, T. Yoneda Complexation reactions of inorganic anions on layered double hydroxide surfaces
	14:40	4E13	<u>Atsushi NAKAO</u> , S. Funakawa, T. Kosaki <sup>137</sup> Cs adsorption on soil clays blocked by hydroxy-Al polymers in acidic forest soils of southwestern Japan
	15:00	4E14	<u>Etelka TOMBÁCZ</u> , M. Szekeres Surface charge heterogeneity of 1:1 and 2:1 type clay particles in aqueous suspension
	15:20	Coffee Break	
	<i>Chairs: T. Saito, E. Tombácz</i>		
	15:40	4E15	<u>Yu ZHANG</u> , X. Dou, M. Yang, H. He Arsenate Adsorption on an Fe-Ce Bimetal Oxide Adsorbent: Role of Surface Properties and Surface Complexation
	16:00	4E16	<u>Wen-Feng TAN</u> , F. Liu, Y. Wang, L. K. Koopal Effect of electrolyte on adsorption/desorption of Cu <sup>2+</sup> on Mn oxide
	16:20	4E17	<u>K. Sasaki</u> , <u>Hitoshi TAKAMORI</u> , H. Yoshizaka, T. Hirajima SORPTION OF BORIC ACID ON MAGNESIUM OXIDE IN PERMEABLE REACTIVE BARRIERS
Room F	Room F		
	<i>Chairs: N. Mishchuk, T. Ohtsuka</i>		
	14:00	4F11	<u>Reni DESMIARTI</u> , F. Li, C. Yoshimura, Y. Suzuki SORPTION AND BIODEGRADATION OF NATURAL ESTROGENS IN SEDIMENT MUD CORES
	14:20	4F12	<u>Saule B. AIDAROVA</u> , A. Babayev, A. Sharipova, A. Makhambetova THE EFFICIENT PURIFICATION OF OIL-CONTAMINATED SOIL BY SURFACTANT
	14:40	4F13	<u>Wawan BUDIANTA</u> , C. Salim, H. Hinode, H. Ohta <i>In situ</i> Washing by Sedimentation Method of Organics-Contaminated Sandy Soil
	15:00	4F14	<u>S. Anraku</u> , K. Morimoto, <u>Tsutomu SATO</u> , T. Yoneda Sorption of Anions and Formation of Minerals at Naturally-occurring Hyperalkaline Condition
	15:20	Coffee Break	

Room F

June 4

*Chairs: K. Sakai, K. Tsujii*

- 15:40 4F15 Ellen R. GRABER, S. Tagger, R. Wallach  
The Role of Divalent Fatty Acids Soaps at Soil Particle Interfaces in Controlling Wetting Kinetics of Water Repellent Soils
- 16:00 4F16 Anurudda K. KARUNARATHNA, K. Kawamoto, P. Moldrup, T. Komatsu, L.W. de Jonge  
Characterizing Soil Water Repellency Properties by Soil Organic Carbon Content, Soil Texture and Sieved-size Fractions
- 16:20 4F17 Kotaro FUKADA, S. Kawashima, K. Nakamura  
A new methodology for measuring continuous soil air content using sound resonance

Room A

Room A

- 16:45 Farewell