# International Hybrid Session

## FA 3R / Waste management

**FA-1** Cost analysis of municipal solid waste in several Indonesian major cities  
○Irwan Ridwan Rahim, Hirofumi Nakayama, Takayuki Shimaoka (Kyushu University)

**KS FA-2** Ultimate anaerobic biodegradability of animal manure and forage crops  
○Ji-Hyun Jeong, ○Ho Kang (Chungnam National University)  
Seung-Heon Lee (Korea Rural Research Institute)

**KS FA-3** A study on reasonable treatment way of sediment sludge in Young San Lake  
○JeeJune Song, JI Yong Kim, Young Byum Jo (Mokpo National University)  
Hee Gune Kim, Huyen Sik Park (Jeollanam-Do Government)  
Mun Il Jung (Nam Bu Envi. Co. Ltd.)

**FA-4** KitaQ system composting and its applicability in Asia: Lessons learned and future potential  
○D.G.J. Premakumara, Hirohata Kazuyoshi (Institute for Global Environmental Strategies (IGES))  
Eriko Tamura (JICA)

**FA-5** Alternative solid waste management for Putrajaya Malaysia towards low-carbon society  
○Siti Norbaizura Md. Rejab, Tomohito Hamada, Takeshi Fujiwara (Okayama University)

**FA-6** Survey on household and commercial waste composition and strategy of household waste collection by state authority in Republic of Palau  
○Eri Ito, Takeshi Fujiwara (Okayama University)  
Mengkurt W. Rechelhuk (Palau National Government)

**KS FA-7** Estimation of recyclable wastes discharge system in C city  
○Joo-Yong Lee, Sung-Keun Bae (Changwon National University)

**FA-8** Household waste generation and relevant factors in Hue city, Vietnam  
○Do Thi Thu Trang, Yasuhiko Matsui, Nguyen Phuc Thanh, Ngo Thi My Yen (Okayama University)

**FA-9** A preliminary survey on residential solid waste generation and door-to-door collection by using GIS/GPS: a case study in Can Tho city, Vietnam  
○Nguyen Phuc Thanh, Yasuhiro Matsui (Okayama University)  
Nguyen Thi Lanh (Can Tho University)

**FA-10** Calculation of food loss by food consumption behavior in food supply chain of Japan  
○Munsol Ju (National Institute for Environmental Studies, Tokyo Institute of Technology)  
Masahiro Osako (National Institute for Environmental Studies)

## FB Recycle

**KS FB-1** Mechanical property of the concrete and quality performance of the dredged sand produced by washing and sorting system  
○SangSoo Lee, Ha Young Song, YunSeong Lee, KangPil Lee (Hanbat National University)  
TaekMoo Jang (Korea SanYang Environment Co., Ltd.)

**KS FB-2** A study on energy characteristics on the carbonization residue derived from the mixture of woody waste and swine manure  
○Seung-Whee Rhee, Hye-Hyun Choi, Hun-Su Park (Kyonggi University)

**KS FB-3** Energy conversion from livestock wastewater by the anaerobic-autothermal aerobic process  
○Sang-min Han, Jin-seok Lee, Tae-Kyu Eom (Kyung Sung University)

**KS FB-4** Effect of SiO₂/N₂O mole fraction on physical property of geopolymer foam block made from mine residue  
○A-Ram Oh, Woo-Keun Lee (Kangwon National University)

**FB-5** Scenario analysis of composting application on municipal solid waste management in Phnom Penh  
○Bunrith Seng, Hidehiro Kaneko (University of Yamashita)

**KS FB-6** Using the waste wood CMC manufacturing techniques for improving the pretreatment of enzyme hydrolysis  
○Beomsoo Kim, Ishan Gulati, Sangwon Park, Hooyong Jo, Jin-Won Park (Yonsei University)

**KS FB-7** A study on the mechanical properties on cement type and blast furnace slag fineness of mortar  
○GyuYong Kim, KyoungSu Shin (Korea Chungnam National University)

---

**Short oral presentation: November 3, Thursday  15:15 - 16:45**
**B111 1F Building B**

**Poster presentation: November 3, Thursday  17:00 - 18:15**
**1F Building E**

**KS: Korea Society of Waste Management**
**International Hybrid Session**

### FC  Thermal treatment

- **November 3, Thursday** 15:15 - 16:45 Short oral presentation, 17:00 - 18:15 Poster presentation

**KS**
- **FC-1** The study on the oil separation of fry-dried coal by a centrifugal machine
  ○ Jongseong Chae, Jaeho Lim, Jinhee Yun, Taein Ohm (Hanbat National University)
  ○ Seunghyun Moon (KIER)

**KS**
- **FC-2** Thermal characteristics of Kideco coal ash & slag in the 3t/d entrained coal gasifier
  ○ Bongjin Jung, Nayeon Lee, Wonjun Nam, Kyunghoon Kim, Chan Lee (The University of Suwon)
  ○ Yongseung Yoon (Plant Engineering Center, Institute for Advanced Engineering)

**KS**
- **FC-3** Characteristics of solid materials sampled in the bench scale entrained coal gasifier
  ○ Nayeon Lee, Bongjin Jung, Wonjun Nam, Kyunghoon Kim, Chan Lee (The University of Suwon)
  ○ Yongseung Yoon (Plant Engineering Center, Institute for Advanced Engineering)

**KS**
- **FC-4** Hydrogen chloride (HCl) and sulfur oxides (SOx) generation characteristics from refuse derived fuel (RDF) incineration
  ○ Weon Joon Lee, Choi Yong Hwan (Chonnam National University)
  ○ Oh Sub Yoon (Hanbat National University)

**KS**
- **FC-5** Cedar wood gasification for chemicals/energy generation - A parametric study
  ○ Katsuya Kawamoto, Salah Aljbour (National Institute for Environmental Studies)

### FD  Landfill

- **November 3, Thursday** 15:15 - 16:45 Short oral presentation, 17:00 - 18:15 Poster presentation

**FD**
- **FD-1** Investigation of perfluorinated compounds in final disposal site
  ○ Mitsuyasu Takata, Nobuhisa Watanabe (Osaka Institute of Technology)
  ○ Shusuke Takemine, Chisato Matsumura (Hyogo Prefectural Institute of Environmental Sciences)
  ○ Takeshi Nakano (Osaka University)

**FD**
- **FD-2** A comparison of leaching behaviours of construction and demolition waste residues from the intermediate-scale lysimeters with different length/width ratios
  ○ Hee-Jong Kim, Kazuto Endo, Masato Yamada (National Institute for Environmental Studies)
  ○ Qaing Tang (Kyoto University)

### FE  Hazardous waste

- **November 3, Thursday** 15:15 - 16:45 Short oral presentation, 17:00 - 18:15 Poster presentation

**FE**
- **FE-1** Removal of PCDD/Fs from sediment by indirect heating treatment: Use of charcoal as a thermal source and adsorbent
  ○ Long Zhao, Kanae Iwasaki, Akihiko Terada, Masaaki Hosomi (Tokyo University of Agriculture and Technology)

**FE**
- **FE-2** Degradation of polychlorinated naphthalene (PCN) by mechanochemical treatment
  ○ Sho Aono, Masaaki Hosomi, Akihiko Terada (Tokyo University of Agriculture and Technology)
  ○ Takashi Yamamoto (National Institute for Environmental Studies)
  ○ Yukio Noma (Fukuoka Women University)
  ○ Yugo Nomura (Japan Quality Assurance Organization)

**FE**
- **FE-3** Mercury dispersion prediction of the coast area of Japan Sea by AIST-ADMER and HYSPLIT model
  ○ Khandakar Md Habib Al Razi, Moritomi Hiroshi (Gifu University)

---

Short oral presentation: November 3, Thursday 15:15 - 16:45  B111 1F Building B
Poster presentation: November 3, Thursday 17:00 - 18:15  1F Building E
KS: Korea Society of Waste Management