

Conference Programme

| Conference Programme | | | | | | | |
|----------------------|--|--------------------|------------------|---------------------|---------------------|---------------------|---|
| Aug.7 (Friday) | | Aug.8 (Saturday) | | Aug.9 (Sunday) | | Aug.10 (Monday) | |
| | | 8:30a.m.-12:00a.m. | Onsite | 8:30a.m.-9:40a.m. | 8:00a.m.-8:25a.m. | 8:00a.m.-9:40a.m. | 8:00a.m.-8:25a.m. |
| | | | | Parallel Sessions | 8:25a.m.-8:50a.m. | Parallel Sessions | 8:25a.m.-8:50a.m. |
| | | | | | 8:50a.m.-9:15a.m. | | 8:50a.m.-9:15a.m. |
| | | | | | 9:15a.m.-9:40a.m. | | 9:15a.m.-9:40a.m. |
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| | | | | 9:40a.m.-10:00a.m. | Coffee Break | 9:40a.m.-10:00a.m. | Coffee Break |
| | | | | 10:00a.m.-11:40a.m. | 10:00a.m.-10:25a.m. | 10:00a.m.-11:40a.m. | 10:00a.m.-10:25a.m. |
| | | | | Parallel Sessions | 10:25a.m.-10:50a.m. | Parallel Sessions | 10:25a.m.-10:50a.m. |
| | | | | | 10:50a.m.-11:15a.m. | | 10:50a.m.-11:15a.m. |
| | | | | | 11:15a.m.-11:40a.m. | | 11:15a.m.-11:40a.m. |
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| 1:00p.m.-8:00p.m. | | Onsite | Opening Ceremony | 1:00p.m.-2:40p.m. | 1:00p.m.-1:25p.m. | 1:00p.m.-2:40p.m. | 1:00p.m.-1:25p.m. |
| | | | | Parallel Sessions | 1:25p.m.-1:50p.m. | Parallel Sessions | 1:25p.m.-1:50p.m. |
| | | | | | 1:50p.m.-2:15p.m. | | 1:50p.m.-2:15p.m. |
| | | | | | 2:15p.m.-2:40p.m. | | 2:15p.m.-2:40p.m. |
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| | | | | Coffee Break | 2:40p.m.-3:00p.m. | Coffee Break | 2:40p.m.-3:00p.m. |
| | | | | 3:00p.m.-4:15p.m. | 3:00p.m.-3:25p.m. | 3:00p.m.-4:15p.m. | Development of appropriate standards and guides of good practice to improve sludge management in Europe Ludovico Spinosa |
| | | | | Parallel Sessions | 3:25p.m.-3:50p.m. | Parallel Sessions | Current Tendency of Sludge Treatment in China Yang Xiangping |
| | | | | | 3:50p.m.-4:15p.m. | | Biological sludge dewatering: The science tells us the directions for the future Peter Scales, David Dixon |
| | | | | 4:30p.m.-5:00p.m. | 4:15p.m.-5:15p.m. | Poster Sessions | Soil and Biosolids: A Public Health Threat or Saviour Ian Pepper |
| 5:00p.m.-5:30p.m. | | | Closing Ceremony | | | | |
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| | | 6:30p.m.-8:00p.m. | Welcome Banquet | 6:30p.m.-7:30p.m | Buffet Dinner | 6:30p.m.-8:00p.m | Gala Dinner |

Session 1

Sludge Treatment Technologies: Thickening, Dewatering, Stabilization, Minimization

| Aug.9 (Sunday) | | Aug.10 (Monday) | | | |
|--|---------------------|---|--|---------------------|--|
| 8:00a.m.-9:40a.m. Parallel Sessions Sludge Treatment Technologies: Thickening, Dewatering, Stabilization, Minimization | 8:00a.m.-8:25a.m. | The Dewatering Characteristics of Water Treatment Plant Sludges David I. Verrelli, Peter J. Scales and David R. Dixon | 8:00a.m.-9:40a.m. Parallel Sessions Sludge Treatment Technologies: Thickening, Dewatering, Stabilization, Minimization | 8:00a.m.-8:25a.m. | CAN CAPILLARY SUCTION TIME BE AN INDICATOR FOR SLUDGE DISINTEGRATION? Onur Guven Apul, Ilgin Doğan and F. Dilek Sanin |
| | 8:25a.m.-8:50a.m. | HIGHLY EFFICIENT SLUDGE DRYING PROCESS INNODRY 2E® AND OUTLOOK TO OPTIMISATION BY COGENERATION WITH GASTURBINE P. Knoer, M. Buechler | | 8:25a.m.-8:50a.m. | Do enzymes work? Effect of enzymes on sludge dewaterability and anaerobic digestion Stephanie Drake, Banu Örmeci and James Diak |
| | 8:50a.m.-9:15a.m. | Relaxation phenomena of activated sludge during mechanical dewatering M. Raynaud, P. Heritier, J-C. Baudez and J. Vaxelaire | | 8:50a.m.-9:15a.m. | Dewatering of Dairy Sludges Rachael C. Wall, Peter J Scales, David R. Dixon and Shane P. Usher |
| | 9:15a.m.-9:40a.m. | Implications and remediations of DMAEA-Q type polymer hydrolysis in wastewater treatment plants H. Saveyn, D. Curvers, J. Pelicaen, J. Cauwenberghs, C. Thoeys and P. Van der Meer | | 9:15a.m.-9:40a.m. | The Application Research on Sludge Lime Drying Process for Municipal Wastewater Treatment Plant Yi ping Gan, Hui Zhang, Jun Zhou, Shan Zhao,Wei Wei |
| Coffee Break | 9:40a.m.-10:00a.m. | Coffee Break | 9:40a.m.-10:00a.m. | | |
| 10:00a.m.-11:40a.m. Parallel Sessions Sludge Treatment Technologies: Thickening, Dewatering, Stabilization, Minimization | 10:00a.m.-10:25a.m. | Acetotlastic methanogens in an anaerobic digester could be susceptible to trace metal supplementation C. Park, A. Bega, C. Unlu, W.R. McKean, P.M. Kohl, J.A. Hunt, J. Keaney, J.L. Willis, and M. Duran | 10:00a.m.-11:40a.m. Parallel Sessions Sludge Treatment Technologies: Thickening, Dewatering, Stabilization, Minimization | 10:00a.m.-10:25a.m. | Correlation of wood-based components and dewatering properties of WAS from pulp and paper industry H. Kyllönen, A. Grönroos, P. Pirkonen, J. Lehto, H. Pakkanen and R. Alén |
| | 10:25a.m.-10:50a.m. | Dynamics of aerobic composting of sewage sludge K.Wang, W.G.Li,L.L.Wang and J.L.Zou and V.Ivanov | | 10:25a.m.-10:50a.m. | Investigation on Reduction Effect of Excess Sludge Mass and Mechanism for the Oxidic-Settling-Anaerobic Process L. P. Sun, C. W. Randall, J. T. Novak |
| | 10:50a.m.-11:15a.m. | Biomass adaptation over sewage sludge and grease anaerobic mesophilic co-digestion Silvestre, G., Fernández, B., Flotats, X., Bonmatí, A. | | 10:50a.m.-11:15a.m. | Full-stream and part-stream ultrasound treatment effect on sludge anaerobic digestion S.I. Pérez-Elvira, F. Fdz-Polanco, M. Fdz-Polanco |
| | 11:15a.m.-11:40a.m. | Digestion of Waste Active Sludge by an Anaerobic Membrane Bioreactor Coupled with Online ultrasonic Equipment M. L. Xu, X. H. Wen, Y. Sh. Li | | 11:15a.m.-11:40a.m. | Investigation into the fate of a metabolic uncoupler, 2,6-dichlorophenol in the sequence batch reactor system Y. Tian, Z. P. Li, D. Wu and J. Zhang |
| Lunch | 11:40a.m.-1:00p.m. | Lunch | 11:40a.m.-1:00p.m. | | |
| 1:00p.m.-2:40p.m. Parallel Sessions Sludge Treatment Technologies: Thickening, Dewatering, Stabilization, Minimization | 1:00p.m.-1:25p.m. | Quantitative analysis of methanogenic community dynamics in an anaerobic batch digester treating waste activated sludge S. G. Shin, C. Lee, J. Kim, B. Park and S. Hwang | 1:00p.m.-2:40p.m. Parallel Sessions Sludge Treatment Technologies: Thickening, Dewatering, Stabilization, Minimization | 1:00p.m.-1:25p.m. | Investigation on Disintegration of Waste Activated Sludge by Hydrodynamic Cavitation and Aerobic Digestion system Y. G. Huang, T. Zhu and X. M. Hu, Y. F. Ma |
| | 1:25p.m.-1:50p.m. | DETERMINATION OF THE SLUDGE STRENGTH THAT YIELDS THE BEST DEWATERABILITY: CANCELLING OUT THE POLYMER EFFECTS Audrey Murray and Banu Örmeci | | 1:25p.m.-1:50p.m. | Excessive sewage sludge conditioning with nano-scale magnetic particles B. Tang, L. J. Yuan, L. F. Yu, S. S. Huang, and Y. Zhuo |
| | 1:50p.m.-2:15p.m. | Reducing sludge production or increasing capacity by removing influent unbiodegradable particulate matter from activated sludge M. Mansour Geoffrion, D. Lamarre, P.L. Dold, A. Gadbois and Y. Comeau | | 1:50p.m.-2:15p.m. | Characteristics of Ecological Stabilized Sewage Sludge (I) Y. B. Cui, Zh. X. Qi, Zh. Q. Guo, T. L. Jiang |
| | 2:15p.m.-2:40p.m. | Characteristics of organic matters during anaerobic digestion of ultrasonically pretreated sludge and the effects on the sludge dewaterability H.C. Xu, P.J. He, and L.M. Shao | | 2:15p.m.-2:40p.m. | Monitoring bacterial and methanogenic community shifts in an anaerobic batch reactor treating waste activated sludge S. G. Shin, K. Hwang, J. Kim, B. Park and S. Hwang |
| Coffee Break | 2:40p.m.-3:00p.m. | Coffee Break | 2:40p.m.-3:00p.m. | | |
| 3:00p.m.-4:15p.m. Parallel Sessions Sludge Treatment Technologies: Thickening, Dewatering, Stabilization, Minimization | 3:00p.m.-3:25p.m. | Co-digestion of tanning residues and sludge Santino Di Bernardino and Alcino Martinho | 3:00p.m.-5:00p.m. Keynote Speech Plenaries | 3:00p.m.-3:30p.m. | Keynote speech |
| | 3:25p.m.-3:50p.m. | Experimental Research on Treatment of Housing Estate Wastewater by Non-Residual Sludge Hydrolytic Acidification Process HAN Hongjun, MA Chunyan | | 3:30p.m.-4:00p.m. | Keynote speech |
| | 3:50p.m.-4:15p.m. | Moisture Removal Mechanism of Sludge Conditioning By Freeze-Thaw Process Hsing Shang Lee, Jiann Long Chen, Kung Yuh Chiang, Chih Chao Wu, and Cheng Liang Chen | | 4:00p.m.-4:30p.m. | Keynote speech |
| | 4:15p.m.-5:15p.m. | Poster Session | | 4:30p.m.-5:00p.m. | Keynote speech |
| | | | | 5:00p.m.-5:40p.m. | Closing Ceremony |
| 6:30p.m.-7:30p.m. | Buffet Dinner | 6:30p.m.-8:00p.m. | Gala Dinner | | |

Session 2 Innovative technologies in sludge treatment and management

| Aug.9 (Sunday) | | | Aug.10 (Monday) | | |
|--|---------------------|--|--|---------------------|--|
| 8:00a.m.-9:40a.m. Parallel Sessions Innovative Technologies in Sludge Treatment and Management | 8:00a.m.-8:25a.m. | The Effect of Iron and Aluminum for Phosphorus Removal on Anaerobic Digestion and Odor Generation John T. Novak and Chang Min Park | 8:00a.m.-9:40a.m. Parallel Sessions Innovative Technologies in Sludge Treatment and Management | 8:00a.m.-8:25a.m. | Combined Anaerobic and Aerobic Digestion for Increased Solids Reduction and Nitrogen Removal John T. Novak, Sarita Banjade and Sudhir Murthy |
| | 8:25a.m.-8:50a.m. | Mechanochemical and biochemical degradation of PCB in contaminated marine sediments G. Cagnetta, G. Intini, L. Liberti, M. Notarnicola, L. Spinosa, P. Stellacci | | 8:25a.m.-8:50a.m. | On the necessity of sludge conditioning with non-organic polymer: AOP approach Y. Q. Zhao, C. Keogh and Maha A. Tony |
| | 8:50a.m.-9:15a.m. | Demonstration of Power-Saving Sewage Sludge Combustion System Composed of Pressurized Fluidized Bed Incinerator and Turbocharger S. Okamoto, T. Miyamoto, S. Ochi, H. Nagasawa, H. Kihara and Y. Suzuki | | 8:50a.m.-9:15a.m. | INNOVATIVE SLUDGE TREATMENT SCENARIOS TO OPTIMIZE ENERGY, PHOSPHATE AND AMMONIA RECOVERY W.H. Rulkens, L. Van Dijk, B.G. Temmink and A.W.A. De Man |
| | 9:15a.m.-9:40a.m. | Mechanism of Improving Sludge Anaerobic Digestion and Reducing Sludge Production by Ultrasonic Disintegration Ji Min, Wang Fen, Yang Jie, Lu Shan, Han Yuhong, Yang Hong | | 9:15a.m.-9:40a.m. | BEHAVIOR OF CHEMICAL AND MICROBIOLOGIST PARAMETERS FROM SLUDGE DIGESTED SUBMITTED THE TREATMENT IN A GREENHOUSE M. R. P. Lima, P. Alem Sobrinho, E. R. Q. Cunha, B. F. Pizzini, L. F. Gomes |
| Coffee Break | 9:40a.m.-10:00a.m. | | Coffee Break | 9:40a.m.-10:00a.m. | |
| 10:00a.m.-11:40a.m. Parallel Sessions Innovative Technologies in Sludge Treatment and Management | 10:00a.m.-10:25a.m. | Advantages of anaerobic digestion of sludge in microaerobic conditions Jenicek P., Keclik F., Koubova J., Bindzar J., Zabranska J. | 10:00a.m.-11:40a.m. Parallel Sessions Innovative Technologies in Sludge Treatment and Management | 10:00a.m.-10:25a.m. | Intensification of anaerobic sludge digestion towards the energy autarky of municipal wastewater treatment Jenicek P., Kutil J., Zabranska J., Dohanyos M. |
| | 10:25a.m.-10:50a.m. | Selected interaction between enhanced biological phosphorus removal and a biogas production S.Rybicki and M.Cimochowicz Rybicka | | 10:25a.m.-10:50a.m. | Effect of Digester F/M Ratio on Gas Production of Ultrasonically Treated Sludge Gözde Tuğba Köksoy, İlgin Doğan, Onur Güven Apul, F.Dilek Sanin |
| | 10:50a.m.-11:15a.m. | Introducing two advanced dewatering technologies for efficient bio-solids management R. R. Bosgraaf, S. Sreeramachandran, K. E. Hamilton, M. Bair, and D. Meier | | 10:50a.m.-11:15a.m. | Applying surplus sludge of biological wastewater treatment plant to reclamation of organic substance, ammonium and phosphate from sewerage L. J. Yuan, S. Liu, H. X. Kong, M. Guo |
| | 11:15a.m.-11:40a.m. | Conditions influencing precipitation of struvite from anaerobic sludge digestion filtrate in a batch reactor X. S. Cao, X. Z. Meng, Y. Z. Wang, S. H. Cheng, and J. Zhang | | 11:15a.m.-11:40a.m. | Effect of microwave irradiation on cellular disintegration of secondary sludge B. W. Zhou, S. G. Shin, C. Lee and S. Hwang |
| Lunch | 11:40a.m.-1:00p.m. | | Lunch | 11:40a.m.-1:00p.m. | |
| 1:00p.m.-2:40p.m. Parallel Sessions Innovative Technologies in Sludge Treatment and Management | 1:00p.m.-1:25p.m. | Improve Sludge Dewatering and Anaerobic Digestion Performance by Hydrothermal Technology Wang Wei, Qiao Wei | 1:00p.m.-2:40p.m. Parallel Sessions Innovative Technologies in Sludge Treatment and Management | 1:00p.m.-1:25p.m. | Thickening Characteristics of Residual from a Ceramic Membrane Water Treatment Plant B. U. Bae, S. H. Shin, B. S. Lim, C. H. Kim, H. S. Kim, and W. H. Kang |
| | 1:25p.m.-1:50p.m. | Quantification of Viable but non-culturable Escherichia coli in Dewatered Biosolids through Gene Expression via RNA Microarray S. Alanya, C. Park, R.A. Chadderton, M. Duran | | 1:25p.m.-1:50p.m. | Biodegradation of the endogenous residue of activated sludge A. Ramdani, P.L. Dold, A. Gadbois, Y. Comeau |
| | 1:50p.m.-2:15p.m. | Inverted Phase Fermentation for Digestion Intensification M.S.Le, R. Hu, S. Tyrrel and E. Cartmell | | 1:50p.m.-2:15p.m. | Ultrasonic lysis of biological sludge: a three-stage process G Zhang, P. Zhang, and X. Kang |
| | 2:15p.m.-2:40p.m. | Optimization of the Hydrodynamic Sludge Pre-Treatment System with Venturi Tubes J. W. Maeng, E. Y. Lee, and J. H. Bae | | 2:15p.m.-2:40p.m. | Low frequency ultrasound-assisted leaching for decontaminating municipal sewage sludge spiked with Cu and Zn S. de La Rochebrochard, E. Naffrechoux, P. Drogui, G. Mercier, J.F. Blais |
| Coffee Break | 2:40p.m.-3:00p.m. | | Coffee Break | 2:40p.m.-3:00p.m. | |
| 3:00p.m.-4:15p.m. Parallel Sessions Innovative Technologies in Sludge Treatment and Management | 3:00p.m.-3:25p.m. | Bench-Scale Study on Improved Anaerobic Digestion of Wastewater Sludge and Phosphorus Recovery M. Takashima and Y. Tanaka | 3:00p.m.-5:00p.m. Keynote Speech Plenaries | 3:00p.m.-3:30p.m. | Keynote speech |
| | 3:25p.m.-3:50p.m. | Ozone treatment of organic micro-pollutants in sewage sludge R. Vranitzky, J. Lahnsteiner | | 3:30p.m.-4:00p.m. | Keynote speech |
| | 3:50p.m.-4:15p.m. | Response surface methodological analysis of sludge disintegration by microwave-H2O2 advanced oxidation process Y. W. Wang, H. Yan, B. Y. Xiao, Y. S. Wei, J. X. Liu | | 4:00p.m.-4:30p.m. | Keynote speech |
| | 4:15p.m.-5:15p.m. | Poster Session | | 4:30p.m.-5:00p.m. | Keynote speech |
| | | | | 5:00p.m.-5:40p.m. | Closing Ceremony |
| 6:30p.m.-7:30p.m. | Buffet Dinner | | 6:30p.m.-8:00p.m. | Gala Dinner | |

Session 3 Sludge Disposal and Reuse as Resource

| Aug.9 (Sunday) | | | Aug.10 (Monday) | | |
|---------------------------------------|---------------------|---|---------------------------------------|---------------------|--|
| 8:00a.m.-9:40a.m. | 8:00a.m.-8:25a.m. | Mercury Emission from Sewage Sludge Incinerator in Japan Masaki TAKAOKA, Shingo DOMOTO, Kazuyuki OSHITA, Nobuo TAKEDA, Shinsuke MORISAWA | 8:00a.m.-9:40a.m. | 8:00a.m.-8:25a.m. | Phosphorus recovery from incinerated sewage sludge ash by means of acid extraction B. K. Biswas, H. Harada, K. Ohto, H. Kawakita and K. Inoue |
| Parallel Sessions | 8:25a.m.-8:50a.m. | Evaluation of Alum Sludge Reuse as an Adsorbent for Phosphate Removal from Reject Water of a Municipal Wastewater Treatment Plant Y. Yang, Y.Q. Zhao, A.O. Babatunde | Parallel Sessions | 8:25a.m.-8:50a.m. | Feasibility study on simultaneous sludge biotreatment and electricity generation by microbial fuel cell Q. L. Zhao and J. Q. Jiang |
| Sludge Disposal and Reuse as Resource | 8:50a.m.-9:15a.m. | A Sustainable, Integrated Approach to Sludge Management K. Richard Tsang, Barry B. Edwards | Sludge Disposal and Reuse as Resource | 8:50a.m.-9:15a.m. | Environmental Characteristics of Different Energy Recovery Systems Managing Sewage Sludge and Food Waste Sherri M. Cook, Jeremy S. Guest, Steven J. Skerlos, Nancy G. Love |
| | 9:15a.m.-9:40a.m. | Immobilization of Heavy Metals in Carbonized Tannery Sludge Materials F. Li, R. Bade, S. Oh, and W. S. Shin | | 9:15a.m.-9:40a.m. | Excess Sludge Carbon Source for Enhanced Nitrogen Removal and Sludge Reduction with Hydrolysis Technology Y. Q. Gao, Y. Z. Peng, S. Y. Wang, J. L. Wang, J. Y. Zhang |
| Coffee Break | 9:40a.m.-10:00a.m. | | Coffee Break | 9:40a.m.-10:00a.m. | |
| 10:00a.m.-11:40a.m. | 10:00a.m.-10:25a.m. | EFFECT OF DAYLIGHT ON REGROWTH OF BACTERIA IN ANAEROBICALLY DIGESTED SLUDGE AFTER DEWATERING Irep Gözen and Banu Örmeci | 10:00a.m.-11:40a.m. | 10:00a.m.-10:25a.m. | Behavior and Adsorptive Removal of Siloxanes in Sewage Sludge Biogas Kazuyuki Oshita, Yukiko Ishihara, Masaki Takaoka, Nobuo Takeda, Tadao Matsumoto, Shinsuke Morisawa, Akira Kitayama |
| Parallel Sessions | 10:25a.m.-10:50a.m. | Application of Mössbauer Spectroscopy for Quantitative Analysis of Metal Iron Contained in Melt-solidified Slag A. Miyamoto, K. Nomura, M. Ozaki | Parallel Sessions | 10:25a.m.-10:50a.m. | Mechanism of adsorption of gatifloxacin by sludge activated carbon Hong YAO, Zeyu LV, Bo ZHANG |
| Sludge Disposal and Reuse as Resource | 10:50a.m.-11:15a.m. | Co-Digestion and Destruction of Particulate Organic Solids Through Biohydrogen Production and Sludge Minimisation B. Radjaram and R. Saravanane | Sludge Disposal and Reuse as Resource | 10:50a.m.-11:15a.m. | Sludge Treatment by O ₃ /H ₂ O ₂ and Carbon Source Recovery Y.X.Zhao, J.Yin, J.H.Wang |
| | 11:15a.m.-11:40a.m. | Solids Minimization with Thermal Processing J. Welp, J. Rowan, C. Hartinger, X. Tian | | 11:15a.m.-11:40a.m. | Effect of nutrition ratio on the PHA synthesis performance of the activated sludge Z.Q. Chen, W.Chen, Q.X. Wen, T. Tian, Y.B. Li |
| Lunch | 11:40a.m.-1:00p.m. | | Lunch | 11:40a.m.-1:00p.m. | |
| 1:00p.m.-2:40p.m. | 1:00p.m.-1:25p.m. | Sludge Thermal Pre-treatment Prior to Mesophilic Anaerobic Digestion D. Nawawi - Lansade, X. Chen, J. Chauzy and S. Deléris | 1:00p.m.-2:40p.m. | 1:00p.m.-1:25p.m. | Use of MWWP Sludge Ash as a Mineral Component in Concrete: A case study for City of Ankara-Turkey S. S.Celik and S. L. Sanin |
| Parallel Sessions | 1:25p.m.-1:50p.m. | Nitrogen removal from reject water with primary sludge as denitrification carbon source L. Zhang, S. J. Zhang, J. Zhou, S. Y. Wang, Y. P. Gan and Y.Z. Peng | Parallel Sessions | 1:25p.m.-1:50p.m. | Hong Kong Sludge Treatment Facilities Echo Leong, Alex Kwan, Priscilla Yuen |
| Sludge Disposal and Reuse as Resource | 1:50p.m.-2:15p.m. | Optimization of methane production in mesophilic anaerobic sludge digestion with microwave pretreatment W.-J. Park, J.-H. Ahn and C.-K. Lee | Sludge Disposal and Reuse as Resource | 1:50p.m.-2:15p.m. | Use of water treatment sludge as a heavy metal adsorbent Y-F Zhou and R.J. Haynes |
| | 2:15p.m.-2:40p.m. | Dynamics of aerobic microbial reaction rate and biological activity at the high-rate stage of sludge composting K.Wang, W.G.Li, V.N.Ivanov, O.V.Stabnikova, L.L.Wang and J.L.Zou | | 2:15p.m.-2:40p.m. | Surface properties and adsorption characteristics to methylene blue and iodine of adsorbents from sludge L.Y. Deng, G. R. Xu and G. B. Li |
| Coffee Break | 2:40p.m.-3:00p.m. | | Coffee Break | 2:40p.m.-3:00p.m. | |
| 3:00p.m.-4:15p.m. | 3:00p.m.-3:25p.m. | Synergetic Disintegration of Sewage Sludge by Combining Alkaline and Ultrasonic Pretreatment D. H. Kim, E. Jeong, and H. S. Shin | 3:00p.m.-5:00p.m. | 3:00p.m.-3:30p.m. | Keynote speech |
| Parallel Sessions | 3:25p.m.-3:50p.m. | N/P Cycles in Food Production and Trades in Japan and Sewage Sludge Management Sato Kazuaki | Keynote Speech Plenaries | 3:30p.m.-4:00p.m. | Keynote speech |
| Sludge Disposal and Reuse as Resource | 3:50p.m.-4:15p.m. | Novel lightweight building bricks manufactured from water treatment plant sludge and agricultural waste Kung Yuh Chiang, Pin Hui Chou, Kuang Li, Chien | | 4:00p.m.-4:30p.m. | Keynote speech |
| | 4:15p.m.-5:15p.m. | Poster Session | | 4:30p.m.-5:00p.m. | Keynote speech |
| | | | | 5:00p.m.-5:40p.m. | Closing Ceremony |
| 6:30p.m.-7:30p.m. | Buffet Dinner | | 6:30p.m.-8:00p.m. | Gala Dinner | |

Session 4 Sludge Characteristics and Analysis Methods
Land Application Controversies and Solutions
Sustainable Sludge Management: Policies, Legislation, Risk Assessment and Management
Challenges in Sludge Management in Developing Countries

| Aug.9 (Sunday) | | | Aug.10 (Monday) | | |
|---|---------------------|--|--|---------------------|--|
| 8:00a.m.-9:40a.m. Parallel Sessions Sludge Characteristics and Analysis Methods | 8:00a.m.-8:25a.m. | Fourier Transform Infrared (FTIR) Spectroscopy for Quality Control of Flocculant Polymers Steven K. Dentel and Rovshan Mahmudov | 8:00a.m.-9:40a.m. Parallel Sessions Sustainable Sludge Management: Policies, Legislation, Risk Assessment and Management | 8:00a.m.-8:25a.m. | Study on Application of BOT model in Sewage Sludge Disposal and Treatment of China Xin TIAN, Miao CHANG |
| | 8:25a.m.-8:50a.m. | Recent Development of in-situ Image Detecting System on Floc Characterization and Monitoring WANG Dongsheng, FENG Jiang, LI Tao, YAO Chonghua | | 8:25a.m.-8:50a.m. | Australasian Biosolids Partnership: Collaboration for more effective biosolids management Andrew Speers, Allen Gale, Nancy Penney. |
| | 8:50a.m.-9:15a.m. | Sludge suspension characteristics in energy efficient pumping of waste water disposals R. Holm, P. Slatter and R. Haldenwang | | 8:50a.m.-9:15a.m. | Evaluating the Sustainability of Wastewater Sludge Processes through Life Cycle Analysis Jianpeng Zhou, Rakesh Mora, Raj S. Dacha and Ashok Guntaka |
| | 9:15a.m.-9:40a.m. | The effect of sonication parameters on methanogenic sludge activity Cimochowicz-Rybicka, B.Tal-Figiel and S.M.Rybicki | | 9:15a.m.-9:40a.m. | Biosolids master planning: a roadmap to success A. Man, P. Scanlan, T. Johnson, G. Shimp, and H. Santha, X. Tian |
| Coffee Break | 9:40a.m.-10:00a.m. | Coffee Break | 9:40a.m.-10:00a.m. | | |
| 10:00a.m.-11:40a.m. Parallel Sessions Sludge Characteristics and Analysis Methods | 10:00a.m.-10:25a.m. | Characteristics of different extracellular polymeric substances (EPS) fractions of sludge flocs from brewery wastewater treatment plant (WWTP) G.H. Yu, P.J. He, and L.M. Shao | 10:00a.m.-11:40a.m. Parallel Sessions Sustainable Sludge Management: Policies, Legislation, Risk Assessment and Management | 10:00a.m.-10:25a.m. | From raw incineration to advanced digestion – influence of sustainability on meeting a sludge strategy W. P. F. Barber |
| | 10:25a.m.-10:50a.m. | Redoxan®: A novel technique for improving biogas production and solid destruction in activated sludge treatment Yingyu An, Chris Dotremont, How Yong Ng | | 10:25a.m.-10:50a.m. | Life-Cycle Inventory Analysis of Global Warming Impact and Energy Consumption of Sewage Sludge Recycling D. Yamanaka, A. Miyamoto and M. Minamiyama |
| | 10:50a.m.-11:15a.m. | Structures and Partitioning of Complexes of a Cationic Flocculant Polymer with an Anionic Surfactant Betul Arican and Steven K. Dentel | | 10:50a.m.-11:15a.m. | A Comparative Evaluation of Sewage Treatment Systems from the Perspective of Energy Consumption Satoko Shomura, Kazuyuki Oshita, Masaki Takaoka, Shinsuke Morisawa, Tadao Matsumoto |
| | 11:15a.m.-11:40a.m. | Land application of sludge (biosolids) in Australia: risk to the environment and food crops D. L. Pritchard , N. Penney , M. McLaughlin , H. Rigby & K. Schwarz | | 11:15a.m.-11:40a.m. | Model analysis of energy consumption and greenhouse gas emissions of sewage sludge treatment systems with different processes and scales S. Soda, Y. Iwai, K. Sei, Y. Shimoda, and M. Ike |
| Lunch | 11:40a.m.-1:00p.m. | Lunch | 11:40a.m.-1:00p.m. | | |
| 1:00p.m.-2:40p.m. Parallel Sessions Land Application Controversies and Solutions | 1:00p.m.-1:25p.m. | Bio-composting of sewage sludge and its role in the rebuilding up of soil fertility J. LI, H.F. YANG, L. LIANG, Zh. XU, L.L. ZHANG | 1:00p.m.-2:40p.m. Parallel Sessions Challenges in Sludge Management in Developing Countries | 1:00p.m.-1:25p.m. | Sludge Drying: The way to forward – From a long return experience in EUROPE to an efficient implementation in CHINA J.P.CHABRIER, Li WANSHAN, Wendi HAO |
| | 1:25p.m.-1:50p.m. | Multifractal characteristic on microstructure of dewatered sludge drying Weiyun Wang, Aimin Li | | 1:25p.m.-1:50p.m. | Investigation and Analysis on the treatment and disposal of sewage sludge in China Wang Kaijun , Yu Jinhai |
| | 1:50p.m.-2:15p.m. | Sustainability and pathogen hazards of land application of Class B liquid biosolids in the United States L.L. Pepper and C.P. Gerba | | 1:50p.m.-2:15p.m. | Odour creation potential during sludge composting and drying L. Bouchy, E Senante, P Dauthuille, M Aupetitgendre, JP Harry, S Venot, P Rougé |
| | 2:15p.m.-2:40p.m. | Impact of advanced anaerobic digestion processes on organic micropollutants removal in sewage sludge P. Camacho, E. Paul, R Moletta, M. Esperanza, S. Martin, T. Li, P. Dauthuille | | 2:15p.m.-2:40p.m. | Full-scale demonstration and application of aerobic composting of sewage sludge and straw L.X.Zhou, J.L. Liu, H.X.Wang and L.Y.Zhang |
| Coffee Break | 2:40p.m.-3:00p.m. | Coffee Break | 2:40p.m.-3:00p.m. | | |
| 3:00p.m.-4:15p.m. Parallel Sessions Land Application Controversies and Solutions | 3:00p.m.-3:25p.m. | Nitrogen fertilizer replacement value of sludge (biosolids) from wastewater treatment H. Rigby , D. Pritchard , D.Collins , K. Walton , D. Allen and N. Penney | 3:00p.m.-5:00p.m. Keynote Speech Plenaries | 3:00p.m.-3:30p.m. | Keynote speech |
| | 3:25p.m.-3:50p.m. | Thermal hydrolysis, anaerobic digestion and dewatering of sewage sludge as a best first step in sludge strategy: full scale examples in large projects in the UK Keith Panter, David Auty | | 3:30p.m.-4:00p.m. | Keynote speech |
| | 3:50p.m.-4:15p.m. | Effects of Physicochemical Conditioning on Dewaterability of Alum Sludge Wan Zhu Chien, Jiann Long Chen, Chih Chao Wu, and DJ Lee | | 4:00p.m.-4:30p.m. | Keynote speech |
| | 4:15p.m.-5:15p.m. | Poster Session | | 4:30p.m.-5:00p.m. | Keynote speech |
| | | | | 5:00p.m.-5:40p.m. | Closing Ceremony |
| | 6:30p.m.-7:30p.m. | Buffet Dinner | 6:30p.m.-8:00p.m. | Gala Dinner | |