

Day 3 June 18(Wednesday), 2014

as of June 10, 2014

9:20-10:30 Room A

Chair: Vitaly Gitis

【3A-01】

Flotation without Flocculation: Field demonstration of algae separation using chemically-treated bubbles

Russell K.L. Yap, Michael Whittaker, Richard M. Stuetz, William Peirson, Bruce Jefferson, Gayle Newcombe, Rita K. Henderson
The University of New South Wales (Australia)

【3A-02】

Advances in Tailored Bubble Technology: from mm to nm scale and beyond

Mooyoung Han, Tschungil Kim
Seoul National University (Korea)

【3A-03】

Application of tiny microbubbles ozonation enhanced by coarse bubbles on treatment of fine oil-in-water emulsions presented humic acid

Tuan Van Le, Tsuyoshi Imai, Daisuke Ayukawa, Hiroaki Fujinaga, Huy Thanh Vo, Takaya Higuchi, Thanh-Loc Thi Dang and Yatnanta Padma Devia
Yamaguchi University (Japan)

9:20-10:30 Room B

Chair: Ralf Kaegi

【3B-01】

Image Analysis of Sludge Aggregates Obtained at Preliminary Treatment of Sewage

Lech Smoczyński, Harsha Ratnaweera, Marta Kosobucka, Knut Kvaal, Michał Smoczyński
University of Warmia and Mazury in Olsztyn (Poland)

【3B-02】

Aerobic Biological Filtration and Role of Biofilm in the Filter

Kazuhisa .Mimura, Atsuko Michinaka, Yoshimasa Watanabe, Hiroshi Deguchi
Sanki Engineering Co., Ltd. (Japan)

【3B-03】

Removal of nutrients from secondary treated effluent using forward osmosis

Yatnanta Padma Devia, Tsuyoshi Imai, Takaya Higuchi, Masahiko Sekine, Koichi Yamamoto, Ariyo Kanno, Tuan Van Le
Yamaguchi University (Japan)

10:30-11:00

Coffee Break

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11:00-12:10 Room A

Chair: Katsuki Kimura

【3A-04】

Influent composition effects on sludge particle size distributions in an MBR

Thomas Maere, Giacomo Bellandi, Maria Lousada-Ferreira, Lieven De Temmerman, Jan Willem Mulder, Ingmar Nopens
Ghent University (Belgium)

【3A-05】

Integrating activated sludge floc size information in MBR fouling modeling

The Anh Cao, G. Van De Staey, Ilse Smets
University of Leuven (Belgium)

【3A-06】

Paradigm shift in energy saving in MBR for wastewater treatment: bacterial decomposition of signal molecules at nano-scale

Chung-Hak Lee, Taewoo Yi, Sang-Ryoung Kim, Sung -Jun Jo, Kibaek Lee, Sun-Ki Lee, Sanghyun Lee, Chang-Hyun Nam, Jeong-Eun Kim, Kyung-Min Yeon
Seoul National University (Korea)

11:00-12:10 Room B

Chair: Patrick Bauerlein

【3B-04】

Sulphidation kinetics of silver nanoparticles reacted with metal sulphides

Basilius Thalmann, Andreas Voegelin, Eberhard Morgenroth, Ralf Kaegi
Eawag (Switzerland)

【3B-05】

Migration of Ag nanoparticles from a solid matrix into a fluid – Conceptual and analytical method development

Stephan Wagner, F. v.d. Kammer, C. Hametner, J. Steinwider, T. Schalkhammer, M. Schlauf, S. Feldbacher, T. Hofmann
Universität Wien (Austria)

【3B-06】

Influence of Effluent Organic Matter on the stability of Silver nanoparticles

Mélissa Huguet, Leonardo Gutierrez, Cyril Aubry, Jean-Philippe Croué
King Abdullah University of Science and Technology (Saudi Arabia)

12:10-12:20 Room A

Closing

12:20-13:30

Lunch