

令和元年 11 月 20 日

第 1 回日韓水環境若手研究者シンポジウム
—アジアの水環境保全に向けたシステムと技術の新展開—

湿地・沿岸域研究委員会

第 1 回日韓水環境若手研究者シンポジウム—アジアの水環境保全に向けたシステムと技術の新展開—を下記のように開催した。本シンポジウムには、日本側からの参加者 24 名を含めて約 40 名の参加者を得て、地球温暖化への対応も含め水環境問題関連研究の動向や、水環境保全にかかる最新の研究成果の発表が行われ、活発な討議が行われた。また、ポスターセッションや交流会を利用し、日本や韓国、バングラデッシュからの出席者の交流も図ることができた。

なお、本シンポジウムの開催に際しては、公益財団法人クリタ水・環境科学振興財団様からの助成を賜りました。ここに記して深甚の謝意を表します。

記

主催 (公社)日本水環境学会湿地・沿岸域研究委員会、嶺南大学環境問題研究所
後援 (公社)化学工学会環境部会、(公社)環境科学会化学物質管理戦略研究会、
(公財)クリタ水・環境科学振興財団
期日 2019 年 10 月 27 日(日)～29 日(火)
場所 鹿児島大学郡元キャンパス稲盛会館

PROGRAM

October 27 (Sunday)

15:00～18:00 REGISTRATION
19:00～21:00 WELCOME RECEPTION

October 28 (Monday)

9:00～9:30 REGISTRATION
9:30～9:35 OPENING SESSION
Opening remarks Satoshi NAKAI (Hiroshima University)
9:35～11:55 INVITED LECTURES (Chairs: Hidefumi FUKAHORI (Ehime Univ.), Akihiko TERADA (Tokyo Univ. Agric. Technol.), Satoshi NAKAI (Hiroshima Univ.))
9:35～10:25 Jinyoung JUNG (Yeungnam Univ.)
Pilot-plant experience of sidestream Anammox research for energy saving nitrogen removal
10:25～11:15 Akihiko Terada (Tokyo Univ. Agric. Technol.)
Can we harness nitrous oxide (N₂O)-reducing bacteria in nitrogen removing reactors for N₂O mitigation? — Potentials and challenges
11:15～11:55 Shuji FUKAHORI (Ehime Univ.)
Application of Rotating Advanced Oxidation Contactor (RAOC) equipped with TiO₂/zeolite composite sheet for removal of sulfamethazine from wastewater
11:55～13:45 LUNCH BREAK, PHOTOGRAPH
13:45～15:15 ORAL PRESENTATIONS by INVITED YOUNG RESEARCHERS (Chairs: Yuta SHINFUKU (Kagoshima Univ.), Wondal SON (Yeungnam Univ.), Hiroyuki YOSHINO (Tokyo Univ. Agric. Technol.)
15:15～15:30 COFFEE BREAK
15:30～16:30 POSTER PRESENTATIONS

- 16:30~16:55 LABO VISIT1 (Div. Instrument. Anal. Res. Support Center, Kagoshima Univ.), LABO VISIT2 (Environmental Chemistry Laboratory, Fac. Eng., Kagoshima Univ.)
- 16:55~17:00 CLOSING SESSION
Closing remarks Shunhwa LEE (Yeungnam Univ.)
- 18:00~20:00 CONFERENCE DINNER

October 29 (Tuesday)

- 9:00~15:00 SOCIALEXCURSION (Place: Historical places of great cultural significance in southern Kagoshima)

ORAL and POSTER PRESENTATIONS

- P1 Binding affinity evaluations of monohydroxydinotefuran and its isomers to an acetylcholine receptor, Mr. Kouki KURIHARA (Kagoshima Univ.)
- P2 Application of water purification technology by microbubble smart anion system, Mr. Wondal SONG (Yeungnam Univ.)
- P3 Comparison of photodegradation behaviors of chlorinated organic pollutants on different types of plastics, Mr. Nazmul HASSAN (Hiroshima Univ.)
- P4 Synthesis of 4-hydroxydinotefuran, a transformation product of neonicotinoid pesticide dinotefuran, Mr. Akihito IHHOSHI (Kagoshima Univ.)
- P5 Quantitative analysis of hazardous substances adsorbed to microplastics in Japanese River, Mr. Jina, KIM (Yokohama National Univ.)
- P6 Excess sludge reduction and change in microbial community by a high-pressure jet device in a Modified Ludzak-Ettinger process, Mr. Hiroyuki YOSHINO (Tokyo Univ. Agric. Technol.)
- P7 Estimation of the momentum transfer cross section of dinotefuran in Traveling Wave Ion Mobility Spectrometry (TWIMS), Mr. Tomohiro NAKAMURA (Kagoshima Univ.)
- P8 Detection and treatment methods for perfluorinated compounds in wastewater treatment plants, Mr. Soowon CHOI (Yeungnam Univ.)
- P9 Life cycle assessment of algal biofuel production using resources available in a sewage treatment plant, Ms. Megumi FURUTA (Hiroshima Univ.)
- P10 Non-targeted screening of ecotoxicants in sewage water with liquid chromatography/high resolution mass spectrometry, Mr. Shutatsu TERADA (Kagoshima Univ.)
- P11 Identification and activity measurement of N₂O-reducing bacteria present in anammox biomass by using a ¹⁵N tracer method, Dr. Toshikazu SUENAGA (Tokyo Univ. Agric. Technol.)
- P12 Effect of temperature shock for selective inhibition of NOB in the partial nitritation reactor, Mr. Hojin SHIN (Yeungnam Univ.)
- P13 Targeted screening and risk assessment of ecotoxicants in sewage water by liquid chromatograph-mass spectrometer, Mr. Takamasa TANAKA (Kagoshima Univ.)
- P14 Application of cationic polymer gel for cultivation of nitrifying bacteria, Ms. Risa MATSUMOTO (Hiroshima Univ.)
- P15 Structural elucidation of a pesticide transformation product of neonicotinoid pesticide dinotefuran, Mr. Masaki OTSUCHIHASHI (Kagoshima Univ.)
- P16 A study on the monitoring and evaluation of water quality in Dalseong abandoned mine downstream basic, Mr. Seokmun JANG (Yeungnam Univ.)
- P17 Effect of bottom layer DO increase on organic matters in sediment, Mr. Shunsuke TAKI (Hiroshima Univ.)
- P18 Exploration of a causative compound of fishy-smell in raw water for taps by using a LC-HRMS, a GC-O-HRMS, and multivariate analyses, Mr. Yuta SHI NFUKU (Kagoshima Univ.)