



國立中山大學

## 新興污染物研究中心

Center for Emerging Contaminants Research, NSYSU

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Newsletter

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- ❖ 本校新興污染物研究中心舉辦之年度學術研討會『2014(第4屆)新興污染物論壇』(emcon forum 2014)已經決定在2014年10月17日(星期五)在國立中山大學圖書與資訊大樓B1視訊研討室舉辦，歡迎國內產/官/學/研各界先進能共襄盛舉，踴躍投稿及報名參加(論文摘要投稿截止日期：2014年7月31日；早鳥註冊/報名費優惠截止日期：2014年8月31日)，詳細資訊請參見網址：<http://www2.nsysu.edu.tw/cecr/2014%20conference.htm>。
- ❖ 國際水協會(International Water Association, IWA)今年6月23-27日在義大利·維羅納(Verona, Italy)舉辦The 2<sup>nd</sup> IWA Specialized International Conference on EcoTechnologies for Wastewater Treatment: Technical, Environmental & Economic Challenges (ecoSTP2014)學術研討會，該研討會有不少的論文與新興污染物相關，茲摘錄相關的論文標題分享如下：(1) Removal of pollutants from WWTP with plants: options and enzymatic background of phytoremediation of diclofenac; (2) Heterotrophic vs. autotrophic bacteria in the biotransformation and mineralization of pharmaceuticals in activated sludge; (3) Removal of micropollutants in a nitrification/Anammox process; (4) Removal of micropollutants from secondary effluents through biological filtration/adsorption systems; (5) Occurrence and removal of pharmaceuticals in pressure sewers; (6) Metoprolol and its metabolites: biological transformation in activated sludge experiments and detection in full scale WWTPs; (7) Removal of emerging pollutants through UV irradiation: the role of wastewater characteristics; (8) Optimization of homogenous and thin-film photocatalytic degradation of ampicillin (AMP) by means of nom effect and toxicity evaluation; (9) Removal of non-steroidal anti-inflammatory drugs from water through photodegradation; (10) Removal of non-steroidal anti-inflammatory drugs from water through photodegradation; (11) TiO<sub>2</sub>-assisted photocatalysis for selected Endocrine Disrupting Compounds removal from treated municipal wastewater; (12) Removal of heavy metal ions from wastewater using industrial waste sludge; (13) removal of micropollutants from secondary effluents and sludge by various processes in rural and peri-urban areas; (14) Micropollutants removal in MBR reactors: a comparative study; (15) Technical, economic and environmental evaluation of advanced tertiary treatments for micropollutants removal (oxidation and adsorption); (16) Batch and continuous enzymatic reactors applied for the removal of bisphenol A by laccase; (17) Electrochemical disinfection combined with micropollutant degradation using a boron-doped diamond electrode- On the way of a new eco-technology for advanced water treatment; (18) Influence of the organic loading rate on the removal of an azo-dye in aerobic and anaerobic submerged filters; (19) Sustainability of urban wastewater treatment plants' discharges: control of disinfection by-products and comparison of applicative systems; (20) Photocatalytic porcelain gres tiles with micro-sized TiO<sub>2</sub>: tests of degradation of dyes in water; (21) Optimization of photocatalytic degradation of chloramphenicol by chemical and biological analysis; (22) Analysis of industrial effluents with a battery of rapid ecotoxicity assays; (23) Novel pre-polymerized coagulant agents used for the treatment of industrial wastewaters; (24) Degradation of an endocrine disrupting chemical (EDC) using different advanced oxidation processes; (25) Biotransformation of organic micropollutants by ammonia oxidizing bacteria; (26) Enzymatic membrane reactor with covalently grafted laccase for tetracycline degradation; (27) Fate and effects of oxytetracycline in drinking water reservoirs; (28) Sulfamethoxazole biodegradation by a specific bacterial strain and investigation of its proteome; (29) Effect of temperature and pH on anaerobic biodegradability of diclofenac; (30) Removal of phthalate esters in sewage sludge by a novel filter press electrodedewatering system; (31) Identification of new transformation products during enzymatic treatment of tetracycline and erythromycin antibiotics at laboratory scale; (32) Chronic effects of the antimicrobial and antibiotics on microbial community structure and development of antibiotic resistance genes; (33) Catalytic oxidation of clofibric acid and ibuprofen using bimetallic nanoparticles supported on alumina and TiO<sub>2</sub> with in-situ generation of H<sub>2</sub>O<sub>2</sub>; (34) Acute inhibition effects of anaerobic effluents including antibiotics on aerobic mixed culture; (35) Metabolism of sulfamethoxazol in *Brassicaceae*; (36) The occurrence and fate of anti-inflammatory and analgesic pharmaceuticals in municipal waste water in Novi Sad。

(以上資料由本中心 楊金鐘 教授 提供)

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