



國立中山大學

新興污染物研究中心

Center for Emerging Contaminants Research, NSYSU

Newsletter

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- 本校新興污染物研究中心暨環境工程研究所將於102年10月13-15日在本校共同舉辦The 1st International Conference on Emerging Contaminants ([emcon forum 2013](#)；第1屆新興污染物國際研討會)，[emcon forum 2013](#)係亞太地區第一次舉辦新興污染物相關議題之國際研討會，本國際研討會已邀請了西班牙、美國、馬來西亞及我國共四位專家學者進行大會專題演講，另將有國內外六十餘篇論文以口頭（論文標題臚列如下）及壁報方式發表。[emcon forum 2013](#)詳細訊息請參見研討會網址：<http://www2.nsysu.edu.tw/cecr/Eng-conference.htm>。

Plenary and Invited Lectures

- L-01: Emerging organic compounds in groundwater: occurrence, challenges and trends
- L-02: Longitudinal follow-up study of health hazards among workers handling engineered nanomaterials
- L-03: The potential of nanofiltration membrane technology in addressing emerging contaminants
- L-04: The use of mesocosms to assess impacts of legacy and emerging contaminants in estuarine ecosystems

Oral Presentations

Track I : Advances in analytical, characterization, and monitoring methods

- O-01: Combination of TOF-SIMS and CLSM imaging techniques for comprehensive cytotoxicity study of ZnO nanoparticles in HaCaT cells
- O-02: Carboplatin degradation products obtained in the aquatic environment
- O-03: The dynamic shape factor of silver nanoparticle agglomerates
- O-04: Evaluating the antibacterial property of gold-coated hydroxyapatite: a molecular biological approach

Track III : Occurrence in groundwater and drinking water

- O-05: Effect of peroxidation on the formation and fates of emerging disinfection byproducts, N-nitrosamines, during drinking water treatment processes
- O-06: Phthalate esters and pharmaceuticals in tap water of Kaohsiung City: Monitoring and removal

Track II : Fate, transport, and transformation

- O-07: Investigation of PAE contaminations in the agriculture soil in an industrial metropolitan area
- O-08: Emerging contaminant issues in New Zealand: An urban case study from the estuarine receiving environment around Auckland
- O-09: Phenolic estrogens sorption onto the low and high molecular humic substances extracted from sediment with fluorescence quenching method
- O-010: Spatiotemporal variability of emerging contaminants in river waters and wastewaters: impacts from tourism

Track IV : Advancement in removal and treatment technologies

- O-011: Fate of emerging contaminants and their removals in two-stage membrane bioreactor treating municipal solid waste leachate
- O-012: Seasonal variation in the occurrence and removal of pharmaceuticals and personal care products in wastewater treatment plant in Xiamen, China
- O-013: Effective degradation of naproxen by using platinum nanoparticles based FTO glass
- O-014: Enhanced visible light assisted photoelectrocatalysis of sulfonamides by TiO₂/ITO composite thin-film photocatalysts after carbon doping
- O-015: Estrogen degradation efficiency and sorption onto colloidal DOM in a constructed wetland with different hydraulic retention times
- O-016: Mechanisms of decomposition and defluorination of dissolved perfluorooctanoic acid (PFOA) in permanganate-ultrasonic system and a comparative study between permanganate and perhydroxyl
- O-017: Ruthenium nanoparticles supported on CeO₂ for catalytic permanganate oxidation of butylparaben
- O-018: Biodegradation of decabromodiphenyl ether by aerobic microcosms
- O-019: The transformation of hexabromocyclododecane with zerovalent iron nanoparticle aggregates

Track V: Emerging contaminants in vertebrate and invertebrate populations

- O-020: Zinc oxide nanoparticles alter embryonic development and larval locomotor activity in zebrafish (*Danio rerio*)
- O-021: Toxic effects of dibutyl phthalate (DBP) on adult zebrafish
- O-022: Effect of two azole fungicides with different cytochrome P450 activity on carcinogenesis in medaka fish (*Oryzias latipes*)

Track VI : Other relevant issues

- O-023: Differential expression of *Neocaridina denticulate* genes at the transcriptional level following short-term exposure to phthalate esters using expressed sequence tags
- O-024: Characterization of PCDD/F emission during start-up period of an MWI with a continuous sampler
- O-025: The study of bio-accumulation of dioxins and mercury in fishes living in polluted closed water

Publisher: Gordon C. C. Yang (楊金鐘)

Phone: +886 7 5252000 ext. 4407

Email: gordon@mail.nsysu.edu.tw

