



CONFERENCE ON NANOPARTICLES IN THE ENVIRONMENT

DATE 8th APRIL 2016 , FRIDAY

VENUE SCHOOL OF CIVIL ENGINEERING
ENGINEERING CAMPUS
UNIVERSITI SAINS MALAYSIA
14300 NIBONG TEBAL
PENANG, MALAYSIA

TIME 9.00 A.M. – 5.00 P.M.

TITLES AND SPEAKERS

**NANOPARTICLES AND THEIR
PROPERTIES, BEHAVIOR, FATE,
AND CHARACTERIZATION
METHODS**

DR. FATEHAH MOHD OMAR

**APPLICATION OF NANO
TECHNOLOGY IN LANDFILL
LEACHATE TREATMENT**

ASSOC. PROF. DR. MOHD SUFFIAN YUSOFF

**APPLICATION OF
NANOPARTICLES IN
WASTEWATER**

EN. ZAIDI AB. GHANI

This conference is aimed for researchers, postgraduates, students, scientists, consultants and industrialists involved in water and wastewater treatment

For further enquiries, please contact us at



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OVERVIEW

The fate and transport of contaminants, such as manufactured nanoparticles introduced into rivers or municipal waters by human activities, needs to be understood to evaluate their long-term impacts on the ecosystems as well as their influences and effects on biota. State-of-the-art techniques are performed to understand the factors controlling the structure, diffusion, aggregation and sedimentation of manufactured nanoparticles as well as the evolution of their aggregates and sedimentation rates after interaction with colloids and biopolymers. This fundamental research is being applied within environmental chemistry and for industrial process control such as the rational design of flocculants used in water & wastewater treatment, drinking water production, as well as to better understand the fate and impact of manufactured nanoparticles in aquatic systems.

Aim of the conference: To provide a detailed introduction and an overview of some innovative applications related to water and wastewater treatment. The conference will consist of presentations and interactive sessions to discuss current issues, problems and even the role play of nanoparticles in the environment.

TENTATIVE PROGRAM

- 0830 – 0900** Registration
0900 – 0930 Opening remarks by the Dean of School of Civil Engineering, USM
0930 – 1030 Nanoparticles and Their Properties, Behaviour, Fate and Characterization Methods [Speaker: Dr. Fatehah Mohd Omar]
1030 – 1100 Morning refreshment
1100 – 1200 Application of Nano Technology in Landfill Leachate Treatment [Speaker: Assoc. Prof. Dr. Mohd Suffian Yusoff]
1200 – 1215 Q & A
1215 – 1315 Lunch
1445 – 1530 Application of Nanoparticles in Wastewater [Speaker: En. Zaidi Ab. Ghani]
1530 – 1630 Discussion on current research and issues, applications of nanoparticle as well as problems posed by them.
1630 – 1700 Tea break and closing remarks.

REGISTRATION

Name : _____

Designation: _____

MyKad: _____

No. Tel (M) : _____

Organisation: _____

Address: _____

Email: _____

REGISTRATION FEES

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