



Workshop on Improving Water System Efficiency through CFD

Thursday, 25th May 2017 | 9:00 am - 12:00 pm | Free Workshop

CAD-IT Consultants (M) Sdn Bhd,

607, Block A, Kelana Centre Point,

Jln SS7/19, Kelana Jaya, 47301, Petaling Jaya, Selangor

[\(View map\)](#)

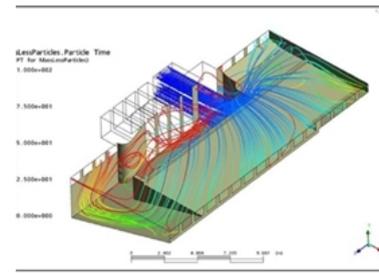
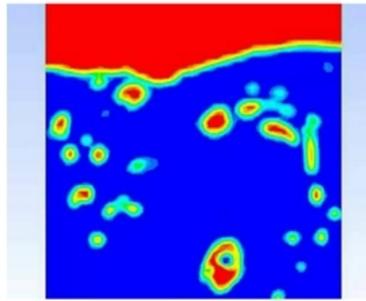
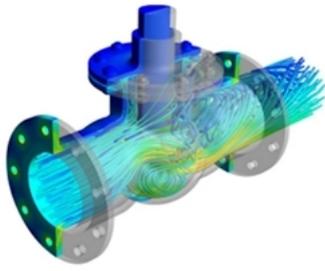
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Introduction

75% of the earth's surface is covered with water. It is a precious commodity. However, most of that water is useless: 97% is seawater, 2.5% is frozen in the ice caps, and just 0.5% is fresh and available for use. Worse, part of the 0.5% of water is contaminated, polluted or otherwise degraded, and not fit for consumption. With global population on the rise and emerging markets developing, water is even more crucial to support this demanding need.

In recent years, different technologies have been introduced to the water industry. However, all this technology is facing dynamic challenges in implementation. The common problems are uneven bubble flow for aeration, multiphase application and turbulence modelling. It is expensive and time consuming to come up with process and design improvements to address these problems.

ANSYS offers the diverse engineering simulation capabilities needed to help water companies optimize their process technologies, equipment and overall performance. The proven capabilities in ANSYS tools can assist engineers in designing new processes and equipment as well as optimizing the performance of existing water systems.



Workshop Objectives

This workshop provides an overview of ANSYS CFD in complex applications involving multiphase, turbulence modelling, water hammering, membrane filtration, etc.

Benefits

- ANSYS Fluid Dynamics simulation technology helps project engineers and decision makers to obtain critical insight on flow structure, pressure, velocity, aeroacoustic and temperature distribution, thereby helping engineers make better engineering decisions.
- Enables you to predict with confidence that your products will thrive in the real world. Customers trust our software to help ensure the integrity of their products and drive business success through innovation.

Who Should Attend?

- Directors, Managers, Engineers and Researchers in the Water Industry

What customers say about our solutions

Engineers found that they are able to **dramatically reduce chlorine consumption** in wastewater facilities. Computer simulation typically costs about 10% as much as building a physical model, yet it provides engineers with far more freedom to evaluate various alternative tank designs. Improving the efficiency of the reservoir, dramatically reduced chlorine expense while avoiding problems in controlling trihalomethane concentration.

Carollo Engineers, Inc

Using ANSYS CFD solution, Dow is able to gain insight into the design and operation of waste water treatment systems and continues to assist the company in ongoing innovation. System performance was significantly improved through simulation based optimization of aerator positioning and flow rates, inlet sludge placement, and positioning of dissolved oxygen probes.

The Dow Chemical Company

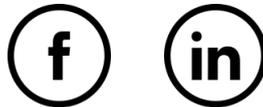
Thames Water utilizes CFD simulation to investigate the performance and possible design of various water treatment processes. Adopted as a design tool in 1992, CFD contributes an understanding of the processes, allowing Thames Water to optimize or check design performance, to effectively troubleshoot, and to investigate scaleup.

Presenter Profile



Muhamad Norfazli Bin Muhamad Amin is an Applications Engineer at CAD-IT Consultants (M) Sdn Bhd. He graduated from Carleton University, Canada with a degree in Mechanical Engineering. He has used ANSYS while at University, to design and simulate his University's Shell Eco-Marathon car.

He has worked as a Technical Officer for the F1 in School Technology Challenge Competition, (Regional and Finals) prior to joining CAD-IT. Fazli now provides technical support for ANSYS CFD solutions.



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