



School of Graduate Studies and Research

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Public Lecture



Dr. EIYAD ABU-NADA

Associate Professor, Department of Mechanical Engineering
Khalifa University, Abu Dhabi, U.A.E.

“Dissipative Particle Dynamics a Simulation Tool for Microfluidics/Nanofluidics”

3:00-4:00 PM, Tuesday, October 20, 2015
Conference Room - Building D

Abstract

In this seminar, Dr. Abu-Nada will highlight his recent research accomplishments in simulating Microfluidics/Nanofluidics applications. The focus will be on a discrete particle simulation approach known as Dissipative Particle Dynamics (DPD). The presentation will introduce first the general framework of DPD. Then, several convective heat transfer flows will be simulated using DPD and benchmarked against convectional computational fluid dynamics codes. Future research plans will be highlighted at the end of the presentation.

About the Speaker

Dr. Eiyad Abu-Nada is recently an Associate Professor in the Department of Mechanical Engineering in Khalifa University. Prior to joining Khalifa University, he worked in King Faisal University in Saudi Arabia and Hashemite University in Jordan. Dr. Abu-Nada is an Alexander von Humboldt (AvH) fellow and recipient of the Abdul-Hameed Shoman Award. His recent research interest includes energy transport at micro/nanoscales by means of “coarse-grained” molecular dynamics models and heat transfer enhancement using nanofluids.