

Seminar Talk

Multi-Scale Modelling
From the University Research to Industrial Application

Roger Assaker, PhD

Co-Founder & CEO e-Xstream engineering

Thursday, April 6th, 2017, 11:00 a.m.

Johannes Kepler University Linz, Science Park 2, Seminar Room S2048



CDL Christian Doppler Laboratory for Structural Strength Control of
Lightweight Constructions



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Multi-Scale Modelling – From the University Research to Industrial Application

Roger Assaker, PhD, Co-Founder & CEO e-Xstream engineering, Luxembourg, roger.assaker@e-xstram.com

Abstract

This talk will illustrate how we used state of the art academic research on Mean-Field and Finite Element based homogenization to develop the Digimat multi-scale material modelling platform. The application of Digimat be illustrated with Digimat applications for material and structural engineering of a variety of multi-phase materials used across industries. Some of the challenge ahead and future outlook will then be discussed.

Biography



Roger Assaker, PhD is a Technology Entrepreneur. He is the cofounder and CEO of eXstream engineering, a software and engineering services company 100% focused on advanced material modelling.

Roger holds a PhD and MS in Aerospace Engineering with a strong focus on nonlinear computational mechanics where he totals more than 20 years of experience.

Roger complemented his engineering education with an MBA in International Business and several advanced technology, business and entrepreneurship courses from prestigious universities such as MIT.

In parallel to growing e-Xstream to be the world leader in advanced composite modeling, Roger is the Vice Chairman of NAFEMS Composite Working Group and an active member of other technical material associations such as SPE and SAMPE.

Outside of work, Roger enjoys spending his time with his family and practicing many outdoor sports such as scuba diving, sailing, snowboarding, golfing and running.