



Seminar on Nanoparticle synthesis by Inductively Coupled Plasma

Friday 16th May, 2008

Meeting room 1, 10:30 AM

Prof. P. Proulx, Sherbrooke University

Prof. Pierre Proulx from Sherbrooke University is currently at VKI for one week as a visiting professor. He is involved since many years on modeling and CFD for Thermal Plasma applications. He will give a seminar related to his current research activity on nanoparticle synthesis. Please see more details in the short abstract below.

Abstract:

The scientific and technological challenges for the thermal plasma production of nanopowders are still formidable. Even though university researchers were using this technology to produce exciting new materials more than 30 years ago, the thermal plasma technology is still developing relatively slowly and industrial developments are scarce. Mathematical modeling of inductively coupled plasmas (ICP) has progressed very rapidly in the recent years, to the point where it has become a tool that can be used in the development of plasma reactors. The presentation will show some recent work where ICP reactors for the production of nanopowders are analysed, optimized or even developed using mathematical modeling.