Nanoparticles and Health
The 3rd CHEMPACK and BITEFA workshop
Organized by the University of Oulu and University of Eastern Finland, Kuopio
Location: Ravintola Nallikari, Oulu
Date: 24th -25th June 2015

24th June 2015
08:00 – 10:00  Registration and breakfast buffet
10:00 – 10:15  Opening of the seminar
  Prof. Pertti Pasanen, University of Eastern Finland (Kuopio)
  Prof. Anita Lloyd Spetz, University of Oulu/ Linköping University
  Dr. Niina Halonen, University of Oulu

Session 1:
Health and diagnostics
Chairman: Pertti Pasanen
10:15 – 10:45  Health effect of nanoparticles
  Prof. Anders Bucht, Umeå University/ Swedish Defence Research
10:45 – 11:15  Health effect of combustion particles
  Dr. Pasi Jalava, University of Eastern Finland (Kuopio)
11:15 – 11:30  Irritation and respiratory effects caused by nanoparticles
  Ph.Lic. Maija Leppänen, University of Eastern Finland (Kuopio)
11:30 – 11:45  Microbial fragments in nanoparticle size range
  M.Sc. Jacob Mensah-Attipoe, University of Eastern Finland (Kuopio)
12:00 – 13:00  Lunch

Chairman: Niina Halonen
13:00 – 13:30  Nanoparticles and inflammation
  Dr. Caroline Brommesson, Linköping University
13:30 – 14:00  Quickly dissolving nanoparticles in drug delivery
  Dr. Timo Laaksonen, University of Helsinki
14:00 – 14:15  The Plant Cell - properties and potential applications
  Prof. Hely Häggman, University of Oulu
14:15 – 14:30  Office comfort and indoor air quality improvement with plants
  Petri Pajunen, Naturvention Oy
14:30 – 14:45  Coffee break
Chairman: Pertti Pasanen
14:45 – 15:00  The cell clinic; measurement technology
   Dr. Niina Halonen, University of Oulu
15:00 – 15:15  LTCC packaging for the cell clinic
   B.Sc. Joni Kilpijärvi, University of Oulu
15:15 – 15:30  The human cell cultivations in cell clinic
   Dr. Antti Hassinen, University of Oulu
15:30 – 15:45  Lab-on-chip
   Dr. Jussi Hiltunen, VTT Oulu

Session 2:  
Detection of nanoparticles
Chairman: Anita Lloyd Spetz
15:45 – 16:15  PM sensors for control of particulate filter in diesel engine exhaust system
   Dr. Jaco Visser, Ford Motor Company, USA
16:15 – 16:30  LTCC based nanoparticle detector; principles
   Assoc. Prof. Mike Andersson, Linköping University/ University of Oulu
16:30 – 16:45  LTCC packaging for portable nanoparticle detector; present status & future ideas
   Dr. Maciej Sobocinski, University of Oulu
17:00 – 19:00  Poster session
19:00 –   Dinner at Restaurant Nallikari

25th June 2015
08:30 – 09:15  Registration and breakfast buffet

Session 3:  
Production and controlling nanoparticles
Chairman: Niina Halonen
09:15 – 09:45  Need for small particle detection in terms of work hygiene
   M.Sc. Heikki Hellman, Ruukki Metals SSAB
09:45 – 10:15  Modern technologies to remove harmful particles from engine emissions
   Dr. Toni Kinnunen, Dinex Ecocat Oy
10:15 – 10:30  Coffee break

Session 4:  
Applications of nanoparticles
Chairman: Anita Lloyd Spetz
10:30 – 11:00  Cellulose nanofibers
   FiDiPro Kristiina Oksman, University of Oulu/Luleå University
11:00 – 11:15  Low temperature growth of carbon nanotubes with bi- and trimetallic catalysts
   M.Sc. Olli Pitkänen, University of Oulu
11:15 – 11:30  Screen printing of nanoparticle inks
   M.Sc. Mikko Nelo, University of Oulu
11:30 – 12:00  Concluding remarks
   FiDiPro Anita Lloyd Spetz, University of Oulu/ Linköping University
12:00 – 13:00  Lunch