

**Training School #1 Schedule**  
**26<sup>th</sup> – 28<sup>th</sup> October 2016**  
**Location: Edifici de Postgrau. Room FF103AA**  
**Campus de Riu Sec. Universitat Jaume I**  
**12071-Castellon de la Plana. Spain**

**26<sup>th</sup> October**

9.00 – 13.30. Working Group Meetings (all TS Trainees are invited to participate)

12.30 – 13.30. Prof. J. Enrique Julia/Prof. Alina Minea (Universitat Jaume I, Spain/Universitatea Tehnica "Gheorghe Asachi" din Iasi, Romania). Welcome Lecture (Introduction to Nanofluids, NANOUP TAKE COST Action and NANOUP TAKE Training Schools)

13.30 – 15.15. Lunch (together with WG Meeting participants).

15.15 – 17.00. Prof. Ioan Pop (Babeş-Bolyai University, Cluj-Napoca, Romania). Lecture: Flow and heat transfer in nanofluids with application to the boundary layer flow past stretching/shrinking surfaces.

17.00 – 17.20: Coffee break.

17.20 – 19.00. Prof. R. Riehl (National Institute for Space Research – INPE, São José dos Campos, Brazil). Lecture: Overall Review on the Application of Nanofluids in Passive Thermal Control Systems for Aerospace and Defense Systems.

**27<sup>th</sup> October**

8.30 – 10.15. Prof. Carlos Nieto de Castro (Universidade de Lisboa, Portugal). Lecture: Applications of Nanofluids to heat transfer problems.

10.15 – 10.45: Prof. J. Enrique Julia/Prof. Alina Minea (Universitat Jaume I, Spain/Universitatea Tehnica "Gheorghe Asachi" din Iasi, Romania). Lecture: Nanofluids in Scientific Publications

10.45 – 11.15: Coffee break.

11.15 – 13.00. Dr. Matthias H. Buschmann (Institut für Luft- und Kältetechnik Dresden / University of Dresden, Germany). Lecture: Thermosyphons and Heat Pipes operated with nanofluids.

13.00 – 14.30. Lunch break.

14.30 – 16.15. Dr. Reza Azizian (Massachusetts Institute of Technology, USA). Lecture: Overview of Nanofluid research at MIT.

16.15 – 16.45: Coffee break.

16.45 – 18.30. Prof. Bengt Sundén (Department of Energy Sciences, Lund University, Sweden). Lecture: Performance and challenges of nanofluids in heat exchanger applications.

**28<sup>th</sup> October**

9.00 – 10.45. Prof. J. Enrique Julia (Universitat Jaume I, Spain). Lecture: Experimental characterization of nanofluids.

Including: Seminars about DLS and Z potential measurements in nanofluids (O. Díez, Iesmat-Malvern) and DSC and Laser Flash thermal conductivity analyser (G. Oteo, Netzsch).

10.45 – 11.15: Coffee break.

11.15 – 13.00. Visit to Universitat Jaume I experimental facilities (including experiments): Dynamic Light Scattering, Differential Scanning Calorimeter, Hot Wire Anemometry, Rheometer, Transmission Electron Microscope, Scanning Electron Microscope.