

Workshop on Non-Destructive Analysis for Space

ESA - EMPA - SSC WORKSHOP

Wednesday, 5th June 2019, EMPA Akademie, Überlandstrasse 129, 8600 Dübendorf

8h30 - 8h45	Reception
8h45 – 9h00	Welcome A. Neels, EMPA / G.Bourban, SSC
9h00 - 10h00	Overview of industrial NDA techniques Dr. T. Lüthi, Senior Scientist, X-ray Imaging Group, Center for X-ray Analytics, EMPA
10h00 - 11h00	Overview of X-ray imaging techniques Dr. R. Zboray, Group leader, CT imaging, Center for X-ray Analytics, EMPA
11h00 – 11h15	Coffee Break
11h15 – 11h45	NDA techniques at ESA Dr. Thomas Rohr, Head of Materials and Processes section, ESA
11h45 - 12h00	Round Table / Q & A
12h00 – 13.00	Lunch
13h00 – 13h20	X-ray imaging of the European Retrievable Carrier (EURECA) at EMPA Multiscale X-ray analysis to support device development and reliability A. Neels, Head of Center for X-ray Analytics, EMPA
13h20 – 13h40	The Effect of Micro-Gravity on the Thermophysical Properties of Phosphorous containing Bulk Metallic Glasses Dr. R. Frison, Scientist, X-ray Diffraction Group, Center for X-ray Analytics, EMPA
13h40 – 14h00	Investigating Li-combustion power systems for extreme environment spacecraft by fast neutron imaging Dr. R. Zboray, Group leader, CT imaging, Center for X-ray Analytics, EMPA
14h00 – 14h15	Coffee Break
14h20 – 15h30	Laboratory session Group 1 & Group 2
15h30 – 16h40	Laboratory session Group 1 & Group 2
16h40 -17h00	Round Table / Conclusions