WORKSHOP
Materials in the Space Environment
May 17th, 2016
Italian Space Agency
Via del Politecnico, 00133 Rome, Italy

8.50 Opening
Chair: Prof. Loredana Santo, University of Rome “Tor Vergata”

9.00 Welcome of the Authorities
Prof. Roberto Battiston, President of the Italian Space Agency (ASI)
Prof. Giuseppe Novelli, Rector of the University of Rome ‘Tor Vergata’
Gen. Enzo Vecchiarelli, Chief of the Italian Air Force (ItAF)
Prof. Fernando Ferroni, President of the National Institute for Nuclear Physics (INFN)
Prof. Massimo Inguscio, President of the National Research Council (CNR)
Prof. Luigi Carrino, President of the Italian Aerospace Research Centre (CIRA)
Dr. Ghidini Tommaso, Head of the Materials Technology Section ESA/ESTEC
Dr. Flavio Lucibello, Coordinator of KET Lab

9.50 Research Session
Kenol Jules, ISS Payloads Office, NASA Johnson Space Center
“Research Capability of the International Space Station for a Wide Spectrum of Scientific Disciplines, Including Material Science”
Kim de Groh, NASA Glenn Research Center
“Materials International Space Station Experiment (MISSE): Overview, NASA Glenn’s Experiments and Future Needs”
Jack J.W.A. van Loon, DESC-VU University Amsterdam/ESA Estec Noordwijk
“Gravity Related Research Capability of Ground-Based Facilities : Life and Physical Sciences”
Gabriele Mascetti, Italian Space Agency (ASI)
“Italian ISS utilization: Results and Perspectives”

11.20 Coffee Break

11.50 Research Session
Marco Durante, Trento Institute for Fundamental Physics and Applications (TIFPA)
“Advanced materials for space radiations shielding”
Stefania Cantoni, Italian Aerospace Research Centre (CIRA)
“High Temperature Materials & Structures for Space applications: CIRA’ s experience and future activities”
Giacomo Cao, University of Cagliari
“Zr-, Hf- and Ta-based Ultra High Temperature Ceramics for the Space Environment”
Diletta Sciti, Institute of Science and Technology for Ceramics ISTEC (CNR)
“Ultra high temperature ceramics and composites for aerospace environments”
Fabrizio Quadrini, Department of Industrial Engineering, University of Rome “Tor Vergata”
“Materials for Space applications: on-orbit experiments of Tor Vergata and new perspectives”
Walter Villadeli, Italian Air Force (ItAF)
“Perspective on future experiments enabling new aerospace capabilities”

13.30 Lunch Break

14.45 Industrial Session
Antonia Simone, Thales Alenia Space
“Nanostructured layers for biodegradation reduction in Space Structures”
Francesca Lillo, Avio S.p.A.
Luca Bancallari e Simone Gubbioni, MBDA Italia
“MBDA Italia R&D activities in the field of materials, production technologies, health management in aerospace and defense”
Alessandro Donati, Kayser Italia S.r.l.
“Payload development and support to crew operations for scientific investigations and technology demonstration on-board the International Space Station”
Renato D’Auria, ALTEC S.p.A.
“ALTEC and the ISS commercial exploitation”
Luciano Battocchio, Aero Sekur S.p.A.
“Flexible and foldable materials for Space Applications”
Stefano Gualandris, Technosprings
“Shrek (shockless release kinematic) shape memory mechanism for latch and release of satellite and aerospace modules and payloads”