

Conferenza di Istituto 2019

INDEX / ORAL CONTRIBUTIONS

Padova - Area della Ricerca, CNR
May 21-22, 2019

Tuesday, May 21st

Morning session – Chair: A. Vittadini

- D. Ripamonti, Milano
TU01 **Dust in fusion devices: characterization, mobilization and adhesion features**
- G. Angella, Milano
TU02 **Materials science for a new classification approach of conventional and advanced spheroidal cast irons**
- L. Nodari, Padova
TU03 **In situ external reflection infrared spectroscopy as contactless tool to investigate artistic materials**
- C. A. Biffi, Lecco
TU04 **Selective laser melting: an advanced method for manufacturing metallic alloys**
- F. Cirisano, Genova
TU05 **Non-contact 3D optical profilometer for advanced surface characterization**

Afternoon session 1 – Chair: F. Passaretti

- F. Migliorini, Milano
TU07 **Laser-induced incandescence technique: current applications and future prospects**
- S. De Iuliis, Milano
TU08 **Flame spray pyrolysis for nanoparticles synthesis**
- A. Galenda, Padova
TU11 **T.A.R.A.N.T.O. project: supported TiO₂ MOCVD thin films and doped TiO₂ powders for photocatalytic water remediation**

Afternoon session 2 – Chair: F. Tisato

- C. Fanciulli, Lecco
TU13 **Growth of a compact thermoelectric generator based on multi-disciplinary approach**
- R. Seraglia, Padova
TU14 **Overview on mass spectrometry: description and applications**
- S. Deambrosis, Padova
TU15 **HiPIMS: the advantages of a high ionization plasma PVD technology**

S. Bogialli, Padova

TU16 **Targeted and non-targeted analysis of organic compounds by high resolution mass spectrometry**

F. Valenza, Genova

TU17 **Wetting and interfacial phenomena in relation to joining of advanced ceramics**

Wednesday, May 22nd

Morning session 1 – Chair: V. Buscaglia

C. Mortalò, Padova

WE20 **BaCe_{0.65}Zr_{0.20}Y_{0.15}O_{3-δ}-Ce_{0.85}Gd_{0.15}O_{2-δ} composite MIEC membrane for H₂ purification**

S. Schiavon, Padova

WE24 **The commissioned research contract**

A. Volpi, Bruxelles

WE25 **Towards Horizon Europe: the new Frame Program for European Research**

Morning session 2 – Chair: G. Angella

R. Donnini, Milano

WE27 **Experimental methods for the determination of macro- and micro-structural properties on materials for industrial applications**

E. Villa, Lecco

WE31 **Thermo-mechanical analysis: from calorimetric measurements to dynamic thermo-mechanical characterization for a complete investigation of microstructure and functional properties of materials**

Afternoon session – Chair: M. Fabrizio

G. Riva, Milano

WE32 **Gasdynamics of Propulsion Systems Lab**

S. Tamburini, Padova

WE33 **Nuclear magnetic resonance, a versatile and powerful spectroscopy**

F. Agresti, Padova
WE35 **Phase change materials emulsions for heat transfer and storage applications**

D. Zannoni, Padova
WE36 **Heavy metals and radionuclides presence and mobility in food and environment:
some recent research activities**