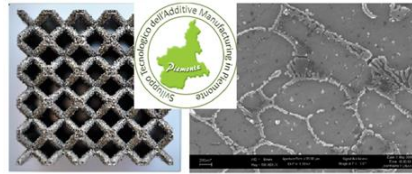




Dipartimento di Chimica  
Università di Torino



The STAMP Project



Università degli Studi di Torino  
Centro inter-dipartimentale "NIS"  
Università di Torino

## NIS Colloquium – STAMP Dissemination

14 February 2019

### Materials and microstructures in Additive Manufacturing

***Aula Avogadro, Dipartimento di Chimica, Università di Torino, V. P. Giuria 7***

This workshop is organized in the framework of the dissemination activities of the STAMP project (Sviluppo Tecnologico dell'Additive Manufacturing in Piemonte, POR - F.E.S.R. 2014/2020) as a discussion forum on new materials for the rapidly growing technology of additive manufacturing.

#### Programme

9.00 – 9.25 **Registration of participants.**

9.25 - 9.30 Livio Battezzati (Università di Torino) **Introduction to workshop.**

9.30 - 10.15 Diego Manfredi (IIT, Torino), Mariangela Lombardi (DISAT, Politecnico di Torino): **Overview on Selective Laser Melting: equipment, alloy processing, critical aspects, innovative outlook, mechanical requirements.**

10.15 - 11.00 Prashanth Konda Gokuldoss (Tallinn Tech. Univ., Estonia): **Selective Laser Melting of Al-based materials.**

Coffee break

11.30 - 12.05 Alberta Aversa (DISAT, Politecnico di Torino): **Effect of processing parameters, single laser track experiments.**

12.05 - 12.40 Silvia Marola (Dip. Chimica, Università di Torino): **Rapid solidification processing of Al alloys and Selective Laser Melting.**

Lunch

14.30 - 15.15 Maurizio Vedani (Dip. Meccanica, Politecnico di Milano): **Mechanical characterization and defects of Selective Laser Melting products.**

15.15 - 15.35 Massimo Lorusso (IIT, Torino): **Mapping the hardness at the nano scale.**

15.35 - 15.55 Dario Gianoglio (Dip. Chimica, Università di Torino): **Thermal treatment of rapidly solidified Al alloys.**

15.55 - 16.40 Marina Cabrini (Dip. Ingegneria, Università di Bergamo): **Corrosion of Selective Laser Melting products.**

16.40 **General discussion and adjourn.**

*Participation is free but registration is required. Please send an e-mail to [s.marola@unito.it](mailto:s.marola@unito.it) before 12-02-2019.*