

Topics on Microelectronics

ToM2022 - XVI Year

Updated information at www.mbtechnoservices.com Director: Andrea Baschirotto







"Semiconductor trip: from a simple idea to a complex manufacturing"

May, 9th-13th, 2022

Abstract: The intent of this course, dedicated to PhD students and held in Italian, is giving a general overview of the complex mechanism that, starting from a simple idea, leads to the manufacturing of a microelectronic device. The environment of a big company as STMicroelectronics will be presented as well as the fundamentals steps of the manufacturing path. During the course, the importance of the research and development and the value of the knowledge will be discussed in the frame of the willingness of a corporate social responsibility.

Lecture Schedule

Monday, May, 9th, 2022

9:00 - 09:30 Marco Marchesi - "Introduction to the course"

9:30 - 10:30 Sonia Fulgoni - "ST Company overview and its Technical Staff Community"

10:30 - 12:30 Alessandro Cremonesi - "Innovation at ST"

14:00 - 16:00 Antonio Molfese - "ST Technology Research and Development"

Tuesday, May, 10th, 2022

9:00 - 11:00 Paolo Pesenti - "Micro Electro-Mechanical System (MEMS) for motion"

11:00 - 13:00 Alessandra Sciutti - "MEMS Technology"

14:30 - 16:30 Simone Dario Mariani, Giuseppe Fazio - "Process Technology"

Wednesday, May, 11th, 2022

9:00 - 11:00 Andrea Redaelli - "An introduction to ePCM"

11:00 - 13:00 Domenico Genova - "Analog & Mixed Signal Design Implementation Flows"

14:30 - 16:30 Pierluigi Rolandi - "Design Research and Development"

Thursday, May, 12th, 2022

9:00 - 11:00 Giovanni Graziosi - "Package platform and co-design challenges"

11:00 - 13:00 Davide Appello - "Testing"

14:30 - 16:30 Alberto Mancaleoni - "Reliability"

Friday, May, 13th, 2022

9:00 - 11:00 Mauro Merlotti - "Failure Analysis"

11:00 - 13:00 Luisa Fracassini - "ST's Sustainable Excellence"

14:30 - 16:30 Giulio Ricotti - "Ultrasound for Health"

16:30- 17:00 Marco Marchesi - "Conclusions"

Lectures will be held in the Room U4/08

Building U4 - Piazza della Scienza 5 - 20126 Milan (Italy)

On-line registration at the website www.mbtechnoservices.com

Course participation includes

- in-person attendance to all lectures
- lunches and coffee-breaks
- pdf material for all lectures
- certificate of participation
- final exam with certificate