



Metamaterials for microwave components and systems

Programme of the School

24 March – Monday

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| 09:15 - 09:45 | Participant registration |
| 09:45 - 10:00 | Welcome and opening |
| 10:00 - 10:30 | <i>Historical perspective about artificial electromagnetic materials</i>
Prof. Lucio Vegni – “Roma Tre” University |
| 10:30 - 11:30 | <i>Introduction to metamaterials – Part I</i>
Prof. Filiberto Bilotti – “Roma Tre” University |
| 11:30 - 12:00 | Break |
| 12:00 - 13:00 | <i>Introduction to metamaterials – Part II</i>
Prof. Filiberto Bilotti – “Roma Tre” University |
| 13:00 - 14:30 | Lunch |
| 14:30 - 15:30 | <i>Metamaterial absorbers</i>
Prof. Alessandro Toscano – “Roma Tre” University |
| 15:30 - 16:00 | Break |
| 16:00 - 17:00 | <i>EBG materials and their applications</i>
Prof. Giuseppe Schettini – “Roma Tre” University |
| 17:00 - 18:00 | Application Note I
<i>Absorbers and EBG Structure: Design and Applications</i>
Davide Ramaccia, Cristina Ponti |
| 18:00 - 19:00 | Self-study |

25 March – Tuesday

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| 09:30 - 10:30 | <i>Transformation electromagnetics and applications – Part I</i>
Prof. Yang Hao – Queen Mary University of London |
| 10:30 - 11:00 | Break |
| 11:00 - 12:00 | <i>Transformation electromagnetics and applications – Part II</i>
Prof. Yang Hao – Queen Mary University of London |

 CST

Web site: <http://school.metamorphose-vi.org/>

- 12:00 - 13:00 *Assignments*
D. Ramaccia, A. Monti and M. Barbuto
- 13:00 - 14:30 Lunch
- 14:30 - 15:30 *Cloaking devices based on metamaterial technology – Part I*
Prof. Sergei Tretyakov – Aalto University
- 15:30 - 16:00 Break
- 16:00 - 17:00 *Cloaking devices based on metamaterial technology – Part II*
Prof. Sergei Tretyakov – Aalto University
- 17:00 - 18:00 Application Note II
Design of resonant inclusions for MW Metamaterials
Alessio Monti, Davide Ramaccia
- 19:30-23:00 **Social Dinner**

26 March – Wednesday

- 09:30 - 10:30 *Metasurfaces and their applications – Part I*
Prof. Stefano Maci – University of Siena
- 10:30 - 11:00 Break
- 11:00 - 12:00 *Metasurfaces and their applications – Part II*
Prof. Stefano Maci – University of Siena
- 12:00 - 13:00 Poster presentation by Students
- 13:00 - 14:30 Lunch
- 14:30 - 15:30 *Transmission line applications of metamaterials – Part I*
Prof. Ferran Martin – Universitat Autònoma de Barcelona
- 15:30 - 16:00 Break
- 16:00 - 17:00 *Transmission line applications of metamaterials – Part II*
Prof. Ferran Martin – Universitat Autònoma de Barcelona
- 17:00 - 18:00 Application Notes III
Devices based on CRLH-TL / Scattering controlled by metasurfaces - Mirko Barbuto, Alessio Monti
- 18:00-19:00 Self-study

27 March – Thursday

- 10:00 - 11:00 Application Notes IV
CST Studio Suite: Numerical Simulator for MW Metamaterials
Davide Tallini
- 11:00 - 11:30 Break
- 11:30 - 12:30 *Assignment solution*
- 12:30 - 13:00 Closing and delivery of participation-credit certificates

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