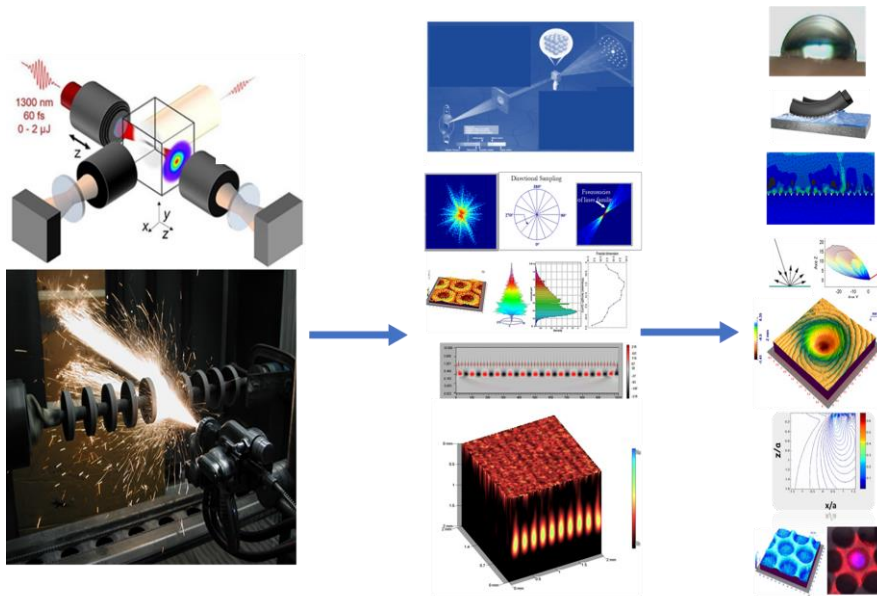




**First International Summer School**

**“Multi-scale texturing of surfaces and multi-physical interactions”**





**Lyon, July, 1<sup>st</sup> and 2<sup>nd</sup> 2019 - Ecole Centrale de Lyon**







# Summer School Course Program

Monday, July 1st 01/07/2019





## 8h30: Introduction





|                                   |   |  |
|-----------------------------------|---|--|
| 8h45                              | <b>Elise CONTRAIRE</b><br>     | <b>Wetting phenomena and textured surfaces</b>                         |
| 9h35                              | <b>Sophie JOST</b><br>        | <b>Colour appearance of materials</b>                                  |
| 9h45 – 10h<br><b>Coffee Break</b> |   |  |
| 10h                               | <b>Benyebka BOU-SAÏD</b><br> | <b>Roughness and Non Newtonian effects on lubricated contacts</b>      |
| 10h50                             | <b>Noël BRUNETIERE</b><br>   | <b>Considering surfaces roughness in fluid film lubrication models</b> |
| <b>12h – 14 h Lunch</b>           |   |  |
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| <p>14h</p>                                 | <p><b>Igor SMUROV</b></p>                   | <p><b>Surface Engineering by deposition of thick protective coatings</b></p>   |
| <p>14h50</p>                               | <p><b>BG. ROSEN &amp; Lars ERIKSON</b></p>  | <p><b>Surface metrology for the automotive industry – Metrology for technically- and economically sustainable vehicles</b></p> |
| <p>15h45 – 16h<br/><b>Coffee Break</b></p> |  |  |
| <p>16h</p>                                 | <p><b>Abdeljalil JOURANI</b></p>          | <p><b>Rough Contact in Tribology: from Static to Sliding Contact</b></p>   |
| <p>16h50</p>                               | <p><b>Minh-Tan Do</b></p>                 | <p><b>Road surface texture and tire/road interaction</b></p>   |

**Tuesday, July**

**8h30 Introduction**

|                                   |  |  |
|-----------------------------------|--|--|
| 8h45                              | <p><b>François BLATEYRON</b></p>    | <p><b>Analysis of complex surfaces with Mountains® 8.0"</b></p>  |
| 9h35                              | <p><b>Liam BLUNT</b></p>           | <p><b>Methodologies for surface data characterization.</b></p> <p><b>Aareal parameters as outlined in ISO25178</b></p> |
| 9h45 – 10h<br><b>Coffee Break</b> |  |  |
| 10h                               | <p><b>Mohamed EL MANSORI</b></p>  | <p><b>Scales and Functional Textures in Manufacturing for Mass Production</b></p>                                      |
| 10h50                             | <p><b>Haris PROCOPIOU</b></p>     | <p><b>Archaeotribology: methods of measurement and characterisation of archaeological surfaces</b></p>                 |
| <b>12h – 14 h Lunch</b>           |  |  |

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|--|---|---|
| <p>14h</p>                                 | <p><b>Christopher A. Brown</b></p>                       | <p><b>Multi-Scale<br/>Characterization of<br/>surface topography</b></p>  |
| <p>14h50</p>                               | <p><b>Virginie DUMAS &amp; Hassan<br/>Zahouani</b></p>  | <p><b>Femtosecond laser<br/>patterning of titanium<br/>modifies the contact<br/>stiffness and the<br/>forces felt by the cells:<br/><i>in vitro</i> study on stem<br/>cell behavior</b></p> |
| <p>15h45 – 16h<br/><b>Coffee Break</b></p> |   |   |
| <p>16h</p>                                 | <p><b>Jerome MOLIMARD</b></p>                          | <p><b>Optical methods for<br/>experimental<br/>mechanics: an<br/>introduction to image<br/>correlation</b></p>  |
| <p>16h50</p>                               | <p><b>Maxence BIGERELLE</b></p>                       | <p><b>The Bootstrap: a tool<br/>to select the<br/>relevance scales of<br/>the topography.</b></p>   |
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