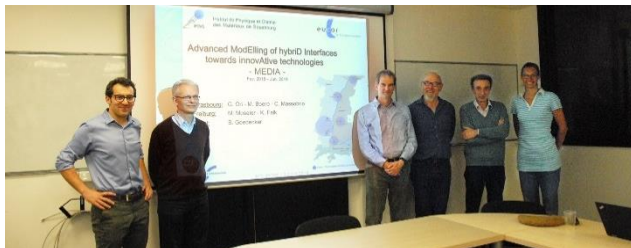


Advanced modelling of hybrid interfaces towards innovative technologies

<p><b>Project partners</b></p>	
<p>Universities of Strasbourg, Freiburg and Basel</p>	
<p><b>Project duration / Awarded funding</b></p>	<p>Left-to-right: Guido Ori UniSTRA, Carlo Massobrio UniSTRA, Stefan Goedecker UniBAS, Michael Moseler UniFREI/Fraunhofer IWM, Mauro Boero UniSTRA, Kerstin Falk UniFREI/Fraunhofer IWM</p>
<p>01.01.2018 – 31.03.2020 / 47.250 €</p>	
<p><b>Short description of the project</b></p>	<p>The partners create a cross-border scientific network between four leading research groups in the field of computer-assisted materials research to build interdisciplinary collaborations and to increase knowledge transfer and innovation. They are studying complex hybrid interfaces, which represent the core of multiple applications in energy, electronics and memories.</p>
<p><b>Concrete implementation of the project</b></p>	<ul style="list-style-type: none"> <li>• We enrol three Master students for research stages (2018-2019) on (FP)MD simulations of interface and disordered systems (two stages of six months at Strasbourg and one stage of two months at Freiburg)</li> <li>• We enrol a Master gr. for a three months contract (2019) to extend the research</li> <li>• We host two visiting PhD students for two weeks (2019, Strasbourg) to perform FPMD modelling of interfaces</li> <li>• Organization of one symposium at EMRS 2018 and participation to conferences</li> </ul>
<p><b>Project results and continuation of collaboration</b></p>	<ul style="list-style-type: none"> <li>• Published three scientific articles (in <a href="#">J. Chem. Phys. 153, 074704 2020</a>, <a href="#">Solid State Sci. 95, 105925 2019</a>, <a href="#">J. Non-Cryst. Solids 498, 288-293 2018</a>) and one book chapter (in <a href="#">Theory and Simulation in Physics for Materials Applications. Springer Series in Materials Science, vol 296. Springer, Cham.</a>) as single partner and a first multi-partner scientific article is in preparation.</li> <li>• Built an international network (eight partners) for applying to EU funding call H2020 FET-Proactive-HPC-2018 (HPC Computing for advanced materials). Project not awarded but we plan to re-apply for a future Horizon Europe call.</li> <li>• Awarded to IPCMS team, in collaboration with Freiburg team, a PhD funding (2019-2022) in the frame of the Idex Int. PhD initiative on modelling hybrid interfaces.</li> <li>• Awarded a QUSTEC-MSCA PhD funding (2019-2023) for modelling interfaced materials.</li> </ul>
<p><b>Further information</b></p>	<p><a href="#">Website of the project</a></p>