WEMESURF – Networking in a Marie Curie Research Training Network

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ABSTRACT

The main aspect of a Research Training Network is the networking between the several participants. In our WEMESURF Research Training Network (Characterisation of WEar MEchanisms and SURFace functionalities with regard to life time prediction and quality criteria - from micro to the nano range) this is demonstrated by sharing samples, equipment and knowledge between the organizations in charge, submitting joint publications and presenting results at national and international conferences, in this way also representing the network. Every three months group meetings take place to discuss obtained results, to plan future research and to check the growth of the single Early Stage Researchers. Active communication via an online forum created solely for the purpose of communication within the Wemesurf project and also videoconferences shall take place. Every Early Stage Researcher has the possibility to choose up to three organizations to visit in order to increase the transfer of knowledge.

Networking in Tribology

Tribology is the science and technology of interacting surfaces in relative motion. It includes the study and application of the principles of friction, lubrication and wear with regard to life time prediction and quality criteria - from micro to the nano range.

What is Wemesurf?

The Wemesurf network was set up in November 2006 to offer training opportunities to early stage researchers (ESRs) and experienced researchers (ERs) in an international/European “training by research” program in the field of Tribology.

The overall objective of the Wemesurf is to foster the development of a pool of interdisciplinary researchers on the crossroad between chemistry, physics, mechanics (including modelling and simulation), material science, mechanical engineering (with special focus in micro/nanotechnology), ecology and economy, and with a gigantic spectrum of applications like in electrical and mechanical engineering, medicine, vehicle industry, computer technology, household devices, etc. (implemented by partners from industry and associated partners from AC\(^2\)T, ITEE, etc.). Objectives of Wemesurf are interrelated with each other, that the results of different characterising technologies based on geometrical, physical or chemical effects lead to an optimal surface related wear detection and further on to the development of theoretical wear mechanism modelling and simulation tools, accompanied by the investigation of the economical and ecological impact of wear prevention.

CONCLUSION

To fulfill objectives of Wemesurf it has to be provided in various scientific disciplines that cannot be covered by a smaller number/group of partners. Networking between them is the main aspect of project. There are many ways of active communication and collaboration, we showed only some of them as a good solution for our network.