

Net4Mobility⁺



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Network of the Marie Skłodowska-Curie Actions National Contact Points for the mobile scientific and innovation community

Success Stories from MSC Fellows Hosted in Widening Countries

Task 4.4 Effective MSCA promotion

Issued by: Gabriella Tchouprenska and Antoaneta Mateeva,
Bulgarian Academy of Sciences

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Name of the MSC Fellow: Pavel Chulkin

Nationality: Belarus

Host organization: Silesian University of Technology

Country of the Host: Poland

Project Acronym: EXCILIGHT

Project start and end date: 10.12.2015 – 10.12.2018

Type of MSC action, H2020: ITN



Project objectives and research field:

The project “EXCILIGHT: donor-acceptor light emitting exciplexes as materials for easy-to-tailor ultra-efficient OLED lighting” is focused on development of new materials for organic light emitting diode (OLED) technology. The research involves advancement techniques for characterization of organic materials, fabrication of device prototypes and their profound investigation.

Tell us why your topic is important and/ or how it brings to advancement in your research field:

The individual research project is devoted to characterization of charge transport in OLEDs using ac frequency response analysis accomplished via registration and treatment of impedance spectra. The developed technique allows revealing information on charge carrier concentration (density) and their mobility, and consequently gain an inference on conductivity properties of the device. The ability to deliver charge is crucial for OLED as it defines successful charge harvesting and minimising energetic losses. The project results make an impact on strategy of OLED design, optimisation and predicting its long-time or high-voltage performance.

What are the benefits of participating in a MSC action?

MSC actions framework gives an advance for young researchers to start a scientific career, in particular by supporting them with a fellowship and keeping in touch with numerous research institutions all over the Europe. Opportunity to participate in a number of conferences broadened the outlook on modern scientific trends,

perspective technologies and acquainting with leading research centres. As far as concerned with my personal development, to the mentioned aspects could be added also practice in foreign language that appeared to be an integral feature of engagement in the project. The societal impact includes creation of highly cooperative research networks and training the participants for collaborative action in solving scientific problems.

Did you encounter any challenges during application/ implementation and did you get any help?

Overcoming challenges is an integral part of getting the new job and its successful accomplishment. No one can be asked for help, since the individual engagement is expected. However, when it was necessary, the help has been granted by supervisor and colleagues.

Why did you choose a widening country as a Host? What was the reason that convinced you? What is making you professionally happy here?

The individual research project offered at Silesian University of Technology, in Poland, met my scientific interests. Subsequent acquisition of national language allowed for eventual engagement in local projects, conferences and funding programmes. Moreover, the effective system of scientific support in Poland makes a perspective for future professional development.

Would you recommend others to apply? What useful advice/ tips can you give them?

I would strongly recommend to apply for a MSCA project. First, I would advise to compare project specialisation with the own area of personal experience. A considerable self-educational work will be required to make up a deficiency of knowledge and deal successfully. Second, I'd recommend active participation in local meetings, conferences and research projects, even if they are not specified in the scope of the main project.