



The **CREA**tion of the Department of Physical Chemistry of Biological Sys**TE**ms [CREATE]

666295 — CREATE — H2020-WIDESPREAD-2014-2015/H2020-WIDESPREAD-2014-2

MEETING REPORT

TOPIC AND DATES

MEETING TOPIC	MEETING DATE	REPORT DATE	PREPARED BY
The Surface Enhanced Raman Spectroscopy	08/11/2016	15/12/2016	Michał Hamkało

MEETING PARTICIPANTS

CREATE GROUP

GUEST GROUP: CHEMICAL INFORMATION PROCESSING (CIP)

Prof. Maciej Wojtkowski

Joanna Niedziolka-Jonsson, , PhD

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Seweryn Morawiec, PhD - UMK Toruń

MEETING SUMMARY

The meeting started with a short introductory discussion about both groups, and their research areas. After that prof. Wojtkowski gave a presentation about the physical fundamentals of Raman spectroscopy and the possible implementation of this method in CREATE group laboratories. In the next part of the meeting Joanna Niedziolka-Jonsson showed a presentation about chemical aspects of the Surface Enhanced Raman spectroscopy. She pointed out problems occurring while working on this technique and finished the presentation with short outlook about possible cooperation areas - such like preparation and characterization of sample-bases providing large enhancement of Raman

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processes. As last part a vivid discussion between all members of the meeting took place, during which all questions and possible cooperation areas were discussed. Meeting helped in better understanding of chemical and physical aspects of Raman Spectroscopy and was very important for establishing a new ways of cooperation between two scientific groups.

CONCLUSIONS AND FUTURE PLANS

Surface enhancement of Raman Spectroscopy is a widely discussed topic nowadays. The new ways of enhancing this process are more and more promising, especially that there are many application of such techniques, e.g. quick medical tests or improvements of forensic investigations. The meeting helped in establishing new channels of communication between two groups, as well as the common grant proposal idea was discussed. Additionally a technical support between both groups on current experiments was discussed, such like a very well defined scatterers layers fabrication that could be done by J. Niedziolka-Jonnson and is very important for STOC studies carried in CREATE group.

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