



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
Spectroscopy and photophysics of porphyrin isomers, porphycenes and studies on the level of single molecules.	06/12/2016	14/12/2016	Patrycjusz Stremplewski

### MEETING PARTICIPANTS

#### CREATE GROUP

Prof. Maciej Wojtkowski  
Dr Maciej Nowakowski  
Dr Patrycjusz Stremplewski  
Dr Dawid Borycki  
Michał Hamkała, M.Sc.

#### GUEST GROUP: PHOTOPHYSICS AND SPECTROSCOPY OF PHOTOACTIVE SYSTEMS (PSPS)

prof. dr hab. Jacek Waluk

### MEETING SUMMARY

Meeting discussion was started by the leader of POB group with short introduction of the group and its capabilities. Next, Prof. Waluk gave introduction to the physical organic chemistry. Particularly to the spectroscopy and photophysics of porphyrin isomers, porphycenes and studies on the level of single molecules using fluorescence and Raman techniques and discovery of vibrational mode-selective tunneling splittings in porphycenes. Among discussed methods were also transient absorption and emission techniques used in time-resolved studies in condensed phases.



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## CONCLUSIONS AND FUTURE PLANS

In the context of photoisomerization of the retinal (one of the areas of interest of POB group) both groups discussed the possibility of using time-resolved transient absorption measurement techniques in studies of vision process in human eye. Members of the Photochemistry and Spectroscopy Department offered help in starting such a research in POB group.



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