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Abstract of the course
„Biomimetic chemistry and bioinspired technologies”

Any machine or process designed by engineers do not equal in perfection with similar process designed by Nature in a process of evolution. Since the development of technology forces searching for new rational and affective solutions scientist more and more frequently peep and copy solutions present in natural environment. Processes, which intellectually base on those found in nature are called biomimetic ones, whereas copying nature is called bioinspiration. Bioinspiration is more and more frequently used to design new technologies starting from mechanic or construction solutions up to material engineering, medicine or cosmetic industry. The proposed series of lectures will encompass the knowledge about means of utilization of knowledge about mechanisms of chosen natural phenomena in chemistry and material science. The lectures will consider:

- 1./ Exploitation of means of survival used by certain organisms in designin new – 4 h.
- 2./ Bioinspired chemical syntheses– 2 h.
- 3./ Example of biomimetic system – construction of artificial photosystem – 2h.
- 4./ How design and engineer protein catalyst – 2 h.
- 5./ Bioinspired drug delivery– 2 h.
- 6./ Material science in regenerative medicine – 2 h.
- 7./ Discussion at the poster presentations – 1 h.

PHD students are credited on the basis of prepared posters and their presentation at poster session.

Termin	Dzień tygodnia	Godzina	Miejsce
23.10.2017	Poniedziałek	12.15 – 15.00	Minicentrum Konferencyjne (Luwr)
24.10.2017	Wtorek	12.15 – 15.00	Minicentrum Konferencyjne (Luwr)
25.10.2017	Środa	12.15 – 15.00	Minicentrum Konferencyjne (Luwr)
26.10.2017	Czwartek	13.15 – 16.00	Minicentrum Konferencyjne (Luwr)
27.10.2017	Piątek	12.15 – 15.00	Minicentrum Konferencyjne (Luwr)

