



"Bioelectrochemical technology. Environmental remediation with energy production"

Visiting Professor: prof. Francisco Jesus Fernandez Morales (University Castilla-La Mancha, Ciudad Real, Spain)

Short description of the lecture:

Energy production and wastes management are key problems of our society. Biotechnology can offer solutions to the biodegradable wastes management with energy production by means of the microbial fuel cells (MFC). MFC are promising bioelectrochemical devices to harvest energy from wastes. The lecture will be focused on the fundamentals of the MFC technology and some of its applications. The course will be partially lecture-based. In the first part of the course the main theoretical aspects will be presented. The second part will be based on practical activities and analysis of results.

Syllabus of the lecture subjects (enlisted):

1. Bioenergy production
2. Bioelectrochemical principles
3. Bioelectrochemical systems
4. Electron transfer in bioelectrochemical systems
5. Electrochemical behavior
6. From wastes to electricity
7. Integration into wastewater treatment systems.
8. Practical activities



| TERMINY WYKLADÓW | | | |
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| Data | Dzień tygodnia | Godzina | Sala |
| 2014-12-01 | Pn | 9.30-12.30 | Hydro 214 |
| 2014-12-02 | Wt | 9.30-12.30 | Hydro 214 |
| 2014-12-03 | Śr | 9.30-12.30 | Hydro 214 |
| 2014-12-04 | Cz | 9.30-12.30 | Hydro 214 |
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