

| E-MINDS TRAINING COURSE SCHEDULE, SIÓFOK, 26-30 MARCH 2018 | | | | | |
|--|---|---|--|---|--|
| | 26 March Monday | 27 March Tuesday | 28 March Wednesday | 29 March Thursday | 30 March Friday |
| 08:30-08:45 | Opening address: L. Péter | Deposition block: L. Muresan | Organic functionalization block: A. Ramanavicius | Organic functionalization block: R. Sandulescu | Deposition block: S. Hansal |
| 08:45-09:00 | | Additives, 2. | Development of biosensors | Nanomaterials and nanotechnologies involved in (bio)sensors desing | Industrial aspects of bath formulation, 2. |
| 09:00-09:15 | Deposition block: S. Roy | | | | Organic functionalization block: R. Sandulescu |
| 09:15-09:30 | Ionic liquids and deep eutectic solvents 1. | Deposition block: S. Roy | Simulation block: H. Ekström | Deposition block: C. Boulanger | Natural and biomimetic receptors involved in (bio)sensors desing -1. |
| 09:30-09:45 | Organic functionalization block: N. Dimcheva | Pulse plating 1. | Introduction to COMSOL Multiphysics | Deposition of compound semiconductors 2. | Student presentations, |
| 09:45-10:00 | Self-assembly processes | | | | |
| 10:00-10:15 | Break | Break | Break | Break | 13-16. |
| 10:15-10:30 | | | | | Break |
| 10:30-10:45 | Deposition block: S. Roy | Organic functionalization block: A. Ramanavicius | Deposition block: C. Boulanger | Deposition block: S. Kuznetsov | Deposition block: S. Kuznetsov |
| 10:45-11:00 | | Conducting polymers for sensor design | Deposition of compound semiconductors 1. | Molten Salt Techniques | Electrochemical Production of Metals and Functional Materials in Molten Salts |
| 11:00-11:15 | Ionic liquids and deep eutectic solvents 2. | | Simulation block: H. Ekström | Simulation block: H. Ekström | Deposition block: S. Hansal |
| 11:15-11:30 | | Deposition block: S. Roy | COMSOL Multiphysics for Electrochemical Simulations | COMSOL Multiphysics for Electrochemical Simulations 2 - Current Distributions | Industrial aspects of bath formulation, 3. |
| 11:30-11:45 | Simulation block: S. Vesztergom | Pulse plating 2. | 1 - Electroanalysis | | |
| 11:45-12:00 | Introduction | | | | |
| 12:00-12:15 | Basic equations and simulation schemes | Lunch break | Lunch break | Lunch break | Lunch break |
| 12:15-12:30 | | | | | |
| 12:30-12:45 | | | | | |
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| 14:15-14:30 | | | | | |
| 14:30-14:45 | Deposition block: L. Muresan | Organic functionalization block: N Dimcheva | Simulation block: S. Vesztergom | Deposition block: S. Hansal | Organic functionalization block: R. Sandulescu |
| 14:45-15:00 | Additives, 1. | Self-assembled monolayers (SAMs) of sulfur-containing organics on metal surfaces | Microelectrodes and rough surfaces | Industrial aspects of bath formulation, 1. | Natural and biomimetic receptors involved in (bio)sensors desing -2. |
| 15:00-15:15 | | | | | Group tasks |
| 15:15-15:30 | Student presentations, 1-4. | Simulation block: S. Vesztergom | Student presentations, 5-8. | Organic functionalization block: N. Dimcheva Applications of SAMs in electroanalysis | Digital simulations |
| 15:30-15:45 | | Cyclic voltammetry | | Break | Simulation-based approach to metal deposition |
| 15:45-16:00 | | | | | Break |
| 16:00-16:15 | Break | Break | Break | | Group tasks: |
| 16:15-16:30 | | | | Student presentations, 9-12. | Presentation to each other, exchange of experience |
| 16:30-16:45 | Simulation block: S. Vesztergom | Group tasks | Group tasks COMSOL Hands-on 1: | | Closing remarks: S. Pané |
| 16:45-17:00 | Strategies for solving PDEs w. mass transfer | Digital simulations | Thin Layer Chronoamperometry and Cyclic | Group tasks COMSOL Hands-on 2: Decorative Metal Plating | Evaluation, certificates, awards |
| 17:00-17:15 | Diffusion, convection and migration effects | | | | Announcement of the next training course event: L. Péter |
| 17:15-17:30 | Homogeneous reactions, charge transfer, ads. | Cottrell's experiment | | | |
| 17:30-17:45 | | | | | |
| 17:45-18:00 | | | | | |
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| 20:30- | | Night walk in Siófok (optional; L. Péter) | | | |