Nano

„TEACH NANO“ – training course for teachers

Nanotechnology is considered to be one of the key technologies of the 21st century. The teachers training course *TEACH-NANO* updates teachers methodically and professionally and shows experiments and methods for use in schools.

Picture: Swiss Nanoscience Institute

Target audience: The course is aimed at teachers in schools at secondary level I and II who are looking for suggestions in teaching nanotechnologies to their science classes and want to maintain a link to the subject's relevance in practice. They will get to know the field of nanotechnology from a broad perspective (fundamentals, practical applications, opportunities and risks, experiments for teachers and students).

Learning objectives: Participants will deepen their knowledge about the fundamentals of nanotechnology and will be made familiar with the current state of scientific and social discussion on this future technology. Upon completion of the course the participants will be able to design a syllabus for teaching nanotechnology close to its practical application, using publicly available material.

Infrastructure: All material necessary for the course (experiments, media, literature, demonstration materials) will be provided by the Innovation Society. Interested schools should provide a chemical or biological laboratory and a computer lab.

Programme: The duration of the course is (according to the combination of the modules) between 1 and 1.5 days. This comprises a whole day in the school laboratory and an optional field-trip of half a day. The course will be given by a recognized expert in the area of nanotechnology with many years of experience in teacher training and own teaching activities at college and university level.

Day 1 (2 modules of ½ day duration each):

Module 1: Introduction and fundamentals of nanotechnology
Different examples of practical applications
Economic perspectives of nanotechnology
Discussion about opportunities and risks

Module 2: Nanotechnology materials for schools (literature, experiments, internet)
Experiments for use in science classes (many examples for teachers and students)

Day 2 (optional: 1 module of ½ day duration)

Module 3: Field-trip to a local company or institution specialized on nanotechnology

Participants: The number of participants is limited to **25** (at least **15**).

Costs: Participation fee for modules 1 and 2 is 240 Swiss francs (including teacher and student documentation, chemicals and instruction material for demonstration exercises, media CD). Costs for Module 3 (optional) as accrued.

the innovation society

Taking Opportunities – Managing Risks. www.innovationsociety.ch

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