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v Ljubljani

Fakulteta *za kemijo*
in kemijsko tehnologijo

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*VABILO NA PREDAVANJE
V OKVIRU DOKTORSKEGA ŠTUDIJA
KEMIJSKE ZNANOSTI*

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z naslovom:

**Self-assembled nanostructures: from physical
chemistry to nanotechnology and nanomedicine**

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v predavalnici 1 v 1. nadstropju Fakultete
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Vljudno vabljeni!

Abstract:

Many products of our daily life such as shampoos, detergents, inks, paints, clays, asphalt, pharmaceutical drugs and creams, and food products involve colloidal structures, often assembled within the nanoscale (1-1000 nm) or the lower end of the microscale (1-10 μm). At the cutting edge of nanotechnology, many advanced materials rely on colloidal structures assembled together with hard surfaces and materials (e.g. sensors, structural nanocomposites). In this talk, we will address some physicochemical fundamentals that govern the behavior of surfactants, lipids and polymers and other molecules in solution and the formation of self-assemblies, from micelles and vesicles to more complex liquid crystalline structures. Examples of applications of these nanostructures in technology and nanomedicine, namely in drug and gene delivery, will be provided.