Univerza *v Ljubljani*

REPUBLIKA SLOVENIJA
MINISTRSTVO ZA IZOBRAŽEVANJE, ZNANOST IN ŠPORT

EVROPSKA UNIJA
EVROPSKI SOCIALNI SKLAD
NALOŽBA V VAŠO PRIHODNOST

VABILO NA PREDAVANJE
V OKVIRU DOKTORSKEGA ŠTUDIJA
KEMIJSKE ZNANOSTI

Prof. dr. Thomas M. Truskett

University of Texas at Austin,
The McKetta Department of Chemical Engineering
Austin, Texas, USA

z naslovom:

Inverse design of interactions for assembly

v sredo, 22. marca 2017 ob 15:00 uri
v predavalnici 1 v 1. nadstropju Fakultete
za kemijo in kemijsko tehnologijo, Večna pot 113

Vljudno vabljeni!

Abstract:
Nanometer-scale, colloidally-stable particles suspended in a fluid can be driven to assemble into a wide variety of different structures depending on the control parameters of the system and the nature of the effective interparticle interactions. In many cases, the relevant interactions are tunable via external fields, physical or chemical modification of the particle surfaces, or changes in the composition of the suspending solvent. In this talk, we discuss some of the theoretical challenges associated with the inverse design of interactions for assembly into a targeted structure and the opportunities that new machine learning based simulation approaches provide for addressing them.

Naložbo sofinancirata Evropska unija iz Evropskega socialnega sklada in Republika Slovenija.