

Department of Physical and Macromolecular Chemistry invites you for a seminar

Lecture hall CH 3, Faculty of Science, Hlavova 8, Praha 2 on December 8<sup>th</sup>, 2021 at 14:00

## Self-assemblies based on hydrophilic polymers in aqueous media

speaker: Anastasiia Fanova

Finishing Ph.D. student, supervisor: Prof. RNDr. Miroslav Štěpánek, Ph.D.



Our study was devoted to experimental investigation (light scattering, SAXS/SANS, NMR and fluorescence spectroscopy) of self-assemblies based on hydrophilic polymers in aqueous media. Specifically, we focused on two classes of systems: (i) hydrophilic polymers whose self-assembly is driven by association of terminal hydrophobic groups and (ii) double hydrophilic block polyelectrolytes whose self-assembly occurs via electrostatic complexation of polyelectrolyte blocks.

## Theoretical investigation of novel catalysts speaker: Mingxiu Liu

Finishing Ph.D. student, supervisor: Prof. RNDr. Petr Nachtigall, Ph.D.



Zeolites are playing an important role in petrochemistry (as a catalyst for fluid catalytic cracking) and recently also in sustainable processes, such as biomass conversion. My doctoral work focuses on the structural determination of new zeolites, the mechanism of the desilication under hydrothermal conditions, and on the identification of the catalytic sites in acid zeolites with Lewis and Brønsted acid sites by the first-principle calculations.

Seminar will be available via Zoom: <a href="https://cuni-cz.zoom.us/j/94758328674">https://cuni-cz.zoom.us/j/94758328674</a>
Organizers: Prof. Tomáš Obšil, Prof. Jiří Čejka, Dr. Jan Přech

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