FIT-4-NMP

Strategic and targeted support
to incentivise talented newcomers
to NMP projects under Horizon Europe

HIGH-PERFORMANCE and SUSTAINABLE COMPOSITES INNOVATION WORKSHOP
TU DRESDEN 13-14.10.2022

Polymer Institute of the Slovak Academy of Sciences (PISAS)
Dmitrij Bondarev
Slovakia

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 958255

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PISAS is focused on polymer synthesis, characterization and modification, polymer composites, biopolymers and computer science

PISAS covers both basic and applied science, have experiences with international projects including Horizon, experience with technology transfer as well

Main areas are:

- **Study and development of RDRP and synthesis of functional polymers**
- **Inorganic and carbon (nano)particles, composites/hybrids**
- **Polymeric (nano)particles, (hydro)gels and (nano)fibres**
- **Synthesis of polymers from renewable monomers, bio(analogous) polymers**
- **(Bio)degradation, stabilization and flammability of polymers**

ÚSTAV POLYMÉROV SAV

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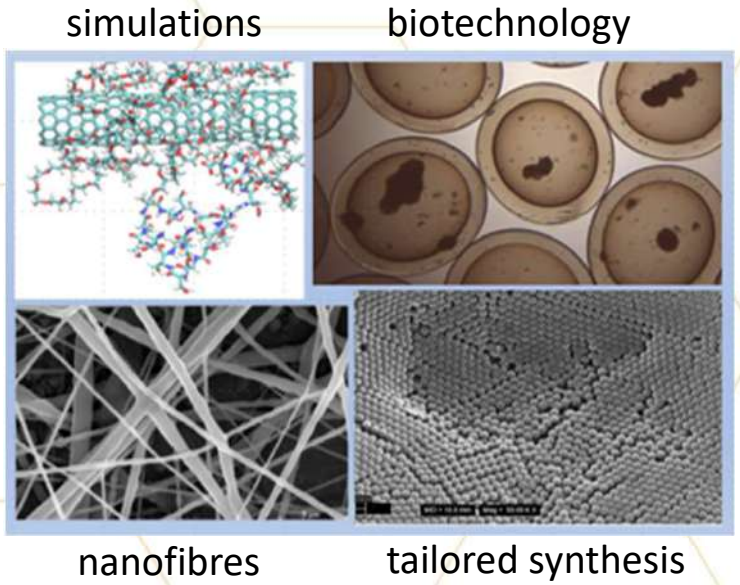
HORIZON-CL4-2023-TWIN-TRANSITION-01-31
HORIZON-CL4-2024-RESILIENCE-01-24

RELEVANT EQUIPMENT AND FACILITIES

- Full equipment, facilities and staff for synthesis of polymers and composites from laboratory up to semi-production scale
- Equipment for analysis, identification and characterization of polymers and composites (own, shared and outsourced facilities – SEC, HPLC chromatography, FTIR and Raman, UV-vis and fluorescence spectroscopy, XPS and broad-band spectroscopy, mechanical properties)



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Dmitrij Bondarev, PhD, Senior research scientist with experience in organic and macromolecular synthesis, physical chemistry and characterization of polymers and related macromolecular systems.

Current interests
* controlled polymerizations by photoATRP
* microplastics and micropollutants
* conjugated polymers and chromophores
* modifications of polymers

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