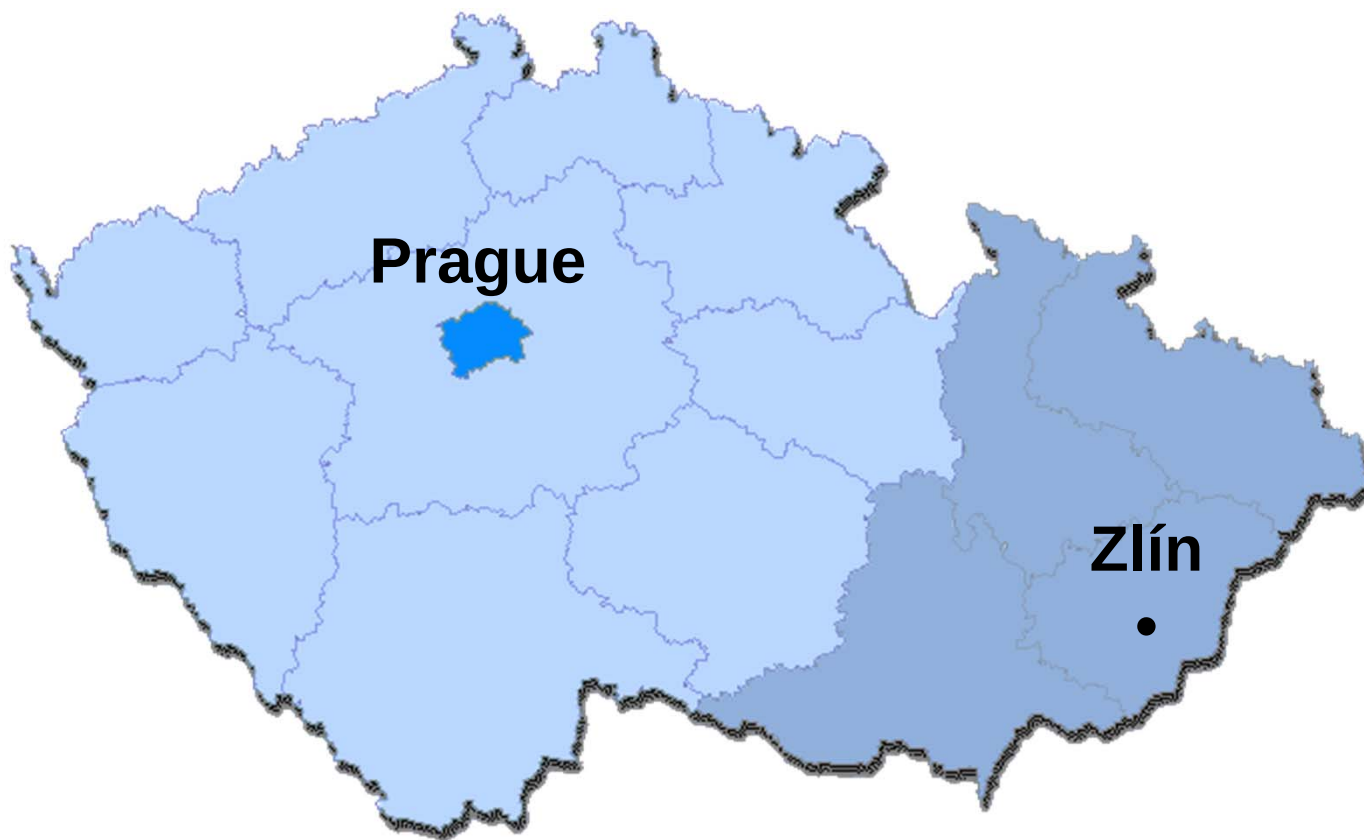


# Centre of polymer systems



## Czech Republic



## 1. Advanced processing of polymers (prof. Zatloukal)

- i. Preparation of multilayer profiles with controlled properties
- ii. Modelling of advanced polymer processing technologies
- iii. Packaging materials for medical, pharmaceutical and food application
- iv. Preparation of bioactive polymer systems

## 2. Preparation of advanced polymer composites (assoc. prof. Kuřitka)

- i. Injection moulding of highly filled polymers
- ii. Multifunctional polymer nanomaterials
- iii. Preparation of hybrid composites for microwave absorbers



## Projects in two main areas

### 1. Health

- i. Medical plastics and polymer devices
- ii. Polymer based Assistive Aids and Technology
- iii. Antibacterial composites and plastics
- iv. Packaging materials for medical, pharmaceutical and food application
- v. Preparation of bioactive polymer systems for medical, pharmaceutical, food, environmental, agricultural and other applications
- vi. Food supplements and natural extracts

### 2. Environment

- i. Recycling of plastics, polymer compounds using recycled materials
- ii. Renewable sources and Waste management – materials from waste and/or natural sources (polymer synthesis and modification)
- iii. Degradability of plastics – prooxidants, biodegradable plastics
- iv. Preparation of hybrid composites for microwave absorbers



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