



Co-operation offer



Department of Biotechnology and Physical Chemistry
Faculty of Chemical Engineering and Technology
Cracow University of Technology

Chemical Processes Intensification Laboratory

Areas of Expertise

Intensification of chemical processes (ICP) is nowadays commonly mentioned as one of the most promising development paths for the chemical industry and one of the most important progress areas for chemical engineering research. The use of alternative energy forms e.g. plasma, UV, microwave or ultrasound waves is one of the key approaches of ICP. We use these techniques to synthesis of organic compounds, and preparation of polymers and nanomaterials. We are experts in:

- Microwave assisted synthesis of polymers and organic compounds
- Identification of structure of unknown organic and polymeric compounds
- Investigations of fluorescent dyes and nanoparticles
- Synthesis of biodegradable polyesters

Our Current Research Area

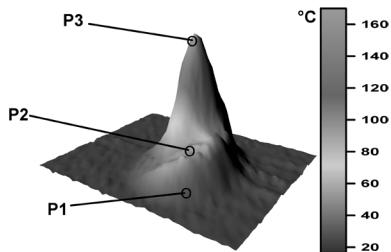
- Microwaves in nanoparticles synthesis
- Conversion of biomass and bioproducts to value-added chemicals and polymers
- Fluorescent compounds
- Alternative solvents

Contact details:

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Scientist + Entrepreneur = Success

If you are planning to develop your company on the basis of the latest scientific findings and you would like to collaborate with experienced scientific experts check the offer of Cracow University of Technology for the industry www.s2b.transfer.edu.pl.

Our online database includes:

- technology offers, patents and industrial designs
- listing of University commercial services including laboratory expertise and research
- database of experts with experience in the implementation of services for the industry

As an internal unit of Cracow University of Technology, our team of consultants is specialized in the commercialization processes. On the other hand long term active cooperation with entrepreneurs allows us to identify precisely industry needs and expectations. Experiences gained through the last two decades on the edge of industry and science collaboration, let TTC formulate optimal models of commercialization and suitable methods of development projects support.



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