

**INSTITUTE OF CHEMICAL PROCESS FUNDAMENTALS OF THE ASCR,  
v. v. i.**

Ústav chemických procesů AV ČR, v. v. i. (ÚCHP)

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The Institute was created in 1960 from the former Department of Organic Technology, Institute of Chemistry, and the Chemical Engineering Laboratory of the Czechoslovak Academy of Sciences. Its previous name was the Institute of Theoretical Fundamentals of Chemical Technology of the CSAS. The current name was adopted as of 1 July, 1993. Pursuant to Act No. 341/2005 Coll., the Institute became a public research institution as of 1 January 2007.

The Institute deals with research in the domain of the theory of chemical processes, covering especially the fields of chemical engineering, physical chemistry and environmental engineering.

The main areas of research are as follows:

- Molecular theory and computer simulations of liquids
- Thermodynamics of fluid systems and phase equilibria
- Supercritical fluid technology fundamentals
- Advanced separation methods
- Dynamics of multiphase reactors and bioreactors
- Catalytic processes (heterogeneous and homogeneous catalysis, biocatalysis).
- Chemical, electrochemical and transport processes in a fluidized bed
- Laser-induced reactions and aerosol processes for the preparation of new compounds and composites
- Chemism of destructive reactions of toxic organic compounds

More detailed information about the organisational structure of the Institute and its research and specialised units can be found at the following URL:

**<http://www.icpf.cas.cz>**