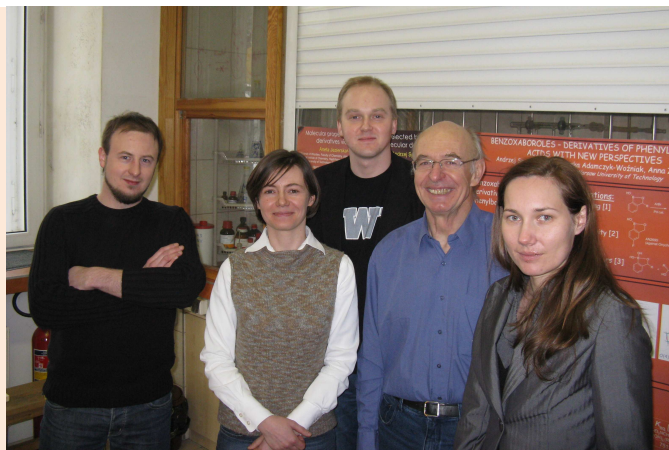


*Department of Physical Chemistry*

Laboratory of

# **SYNTHESIS AND STRUCTURAL INVESTIGATION OF ORGANOBORON COMPOUNDS**



## Current research works

- Boronic acids as molecular receptors for saccharides and amino acids
- Boronic esters as anion-trapping additives to polymer electrolytes
- Determination of biological activity of selected organoboron compounds
- Determination of Lewis acidity of organoboron compounds by experimental methods and calculations
- Multinuclear NMR characterization of organoboron compounds, calculation of chemical shifts by
- Influence of substituents in boronic acids on the hydrogen bond formation
- Synthesis and characterization of novel benzoxaboroles
- Synthesis and characterization of fluorinated boronic acids

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