



UNIVERSITATEA BABEȘ-BOLYAI

TRADIȚIE ȘI EXCELENȚĂ



FACULTATEA DE FIZICĂ

ȘCOALA DOCTORALĂ FIZICĂ

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Prof. dr. Mihai TODICĂ

Domain of interest:

Soft condensed matter and macromolecular physics, polymeric materials, development of new methods of investigation in physics.

Some direction of research:

Investigation of molecular dynamics in polymeric solution and polymeric gels by NMR and ESR methods.

Investigation of structural modification of the local order in macromolecular materials by XRD and spectroscopic methods.

Degradation of soft condensed matter by heat, solvent, UV and gamma irradiation investigated by spectroscopic methods.

Development of polymeric matrices for medical drugs with controlled release.

Development of polymeric membranes for combustion fuel cells.

Development of digital equipment for experimental data recording and analyze.

Teme doctorat:

- Proprietati fizice ale unor polimeri cu aplicatii farmaceutice si medicale
- Membrane si actuatori polimerici cu aplicatii la pile de combustiei
- nvestogarea prin metode spectroscopice a degradarii unor polimeri de uz general si probleme legate de protectia mediului inconjurator