



## Co-operation offer



Laboratory of Applied Research  
Mechanical Engineering Faculty, Production Engineering  
Institute, Cracow University of Technology

## Laboratory of Applied Research

- Since 1996 the main area of activity of the Laboratory is application of the method of acoustic emission in assessment of the process of degradation of the structural materials and testing the technical condition of industrial objects.
- Laboratory also offers studies and analyses of fracture mechanics, experimental analysis of residual stresses, and investigation of shape resistance.
- Laboratory studies the development and implementation of new research techniques, technologies and modern structural materials for special applications.
- Laboratory staff coordinate and conduct different kind of research national and European projects as well research industrial projects.
- Laboratory staff have high qualification in the acoustic emission field, confirmed by European certificates (AT2 according to EN ISO 9712) and works in Polish (PKN) and European (CEN) Committee for Standardization.
- Laboratory personnel is also members of EWGAE and AEWG organizations (European and American)

### OUR OFFER INCLUDES:

- laboratory and field AE tests
- testing of pressure installations - pressure vessels, spherical pressure vessel, reactors, industrial pipelines – performed in accordance with procedure approved by the Office of Technical Inspection (Subcontractor certificate of UDT No LB – 213/12)
- inspection of the technical condition of the above-ground and underground storage tank bottoms performed in accordance with procedure approved by the Office of Technical Inspection (Subcontractor certificate of UDT No LB – 213/12)
- failure mechanics and mechanical testing of structural materials,
- measurement of deformation in structural members by resistance extensometry
- determination and analysis of residual stresses in structural members done by the blind hole-drilling strain gage (Mathara) method,
- fracture mechanics and related testing of materials,
- application of new structural materials,
- failure mechanics and mechanical testing of composites.

### Contact details:

Ireneusz Baran, PhD  
al. Jana Pawła II 37, 31-864 Kraków  
phone: +48 12 374 37 45, e-mail: baran@mech.pk.edu.pl



## 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](http://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.



Contact:  
Technology Transfer Centre  
Cracow University of Technology  
ul. Warszawska 24, 31-155 Kraków



Mrs Magdalena Wójtowicz  
tel. +48 12 628 28 45  
[s2b@transfer.edu.pl](mailto:s2b@transfer.edu.pl)  
[www.transfer.edu.pl](http://www.transfer.edu.pl)  
[www.facebook.com/CTTPK](https://www.facebook.com/CTTPK)



Ministerstwo Nauki  
i Szkolnictwa Wyższego



UNIA EUROPEJSKA  
EUROPEJSKI FUNDUSZ  
ROZWOJU REGIONALNEGO

