

UNIVERSITY OF ORADEA  
Faculty of Power Engineering  
Department of Basic and Economic Courses  
Nr. 737/18.XI.2004

BUDAPEST UNIVERSITY  
OF TECHNOLOGY AND  
Faculty of Civil Engineering

## RESEARCH CONTRACT

Concluded between:

A. Faculty of Power Engineering, Department of Basic and Economic Course of the University of Oradea, 5, Armatei Române Street, Bihor, România, represented by Dean PhD Prof. eng. Marcel Roșca, chair of Basic and Economic Courses PhD. Prof. eng. Florin Vlădicescu Popențiu and Chief of Research Team Assoc. PhD. Prof. eng. Mircea Vereș, and

B. Budapest University of Technology and Economics, Faculty of Civil Engineering, Műegyetem, rkp. 3. H-111, Budapest, Hungary, represented by Mr. Dean PhD. Prof. eng. György Farkas and Chief of Department, PhD. Prof. eng. József Farkas.

The two parts conclude an agreement concerning common research:

The research theme is the following:

*"The effect of tram and traffic induced vibrations in the Oradea urban conditions on the occurrence and development "Sf. Mihail" church on the Magheru Avenue."*

The objectives of the international contract are set according to the county measures concerning the environmental protection rules.

The two parts agree with the following general issues:

1. The geological structure analyses, corresponding to church site of the historical monument.
2. Traffic analyses (cars, trams) on streets of monument neighborhood.
3. Analyses the spectrums of vibration, produced by tram and car traffic.
4. Vibrations propagation line to monument fundament.
5. The analyses of vibration actions onto the monument infrastructure as well as possibilities of vibration damping.
6. Solutions stabilizing to avoid the historical monument deformation due to the induced vibrations as traffic effects.
7. The scientific results obtained at the different stages of cooperation will be used and published commonly.
8. The obtained scientific results beneficiary is the Historical Monuments and Culture Department.
9. The research team members are part of the contract and it will be issued later.
10. The present contract is concluded in 4(four) copies.

University of Oradea

Dean  
PhD. Prof. eng. Marcel Roșca

Chair of Department  
Prof. eng. Florin Vlădicescu Popențiu

Chief of Research Team  
PhD. Prof. eng. Mircea Vereș



Budapest University of Technology  
And Economics  
Dean

PhD. Prof. eng. György Farkas

Chair of Department  
PhD. Prof. eng. József Farkas



LISTA MEMBRILOR COLECTIVULUI DE EXECUȚIE A  
CONTRACTULUI DE CERCETARE NR. 737/18.11.2004

Nr. crt.	Nume și prenume participant	Funcția în cadrul contractului	Locul de muncă	Profesia și funcția didactică	Vechimea în muncă	Specializări	Limbi străine cunoscute
1.	Verș Mircea	director contract	Univ. Oradea	Șef lucr.ing.	32	Dr.ing.în domeniul energetic	franceză
2.	Dzițac Ioan	membriu	Univ. Oradea	Conf.univ.	27	Dr.în informatică	franceză rusă engleză
3.	Pantea Ioan	membriu	Univ. Oradea	Șef lucr. Ing.	15	Dr.ing.în domeniul științe ingineresti	engleză
4.	Almășan Ion	membriu	Univ. Oradea	Șef lucr. Ing.	13	Inginer doctorand	engleză
5.	Vasiu Ioan	membriu	Univ. Oradea	Șef lucr. Ing.	25	Dr. inginer	franceză
6.	Hora Cristina	membriu	Univ. Oradea	Șef lucr. Ing.	12	Inginer doctorand	engleză franceză
7.	Catanase Adriana	membriu	Univ. Oradea	Șef lucr. Ing.	11	Inginer doctorand	engleză franceză
8.	Dzițac Simona	membriu	Univ. Oradea	Referent studii superioare Asistent asociat	7	Matematician Fizician	franceză

Decan,  
Prof. dr.ing. Marcel Roșca



*(Signature)*

Director contract,  
Șef lucr. dr. ing. Mircea Verș

*(Signature)*