CV of Dr. Gábor Pethő

- **GÁBOR PETHŐ**, born in 1952. Gained MSc in geophysical engineering at the Technical University of Miskolc in 1975.
- At present he is a full-time associate research professor at the University of Miskolc.
- Scientific grades: CSc (1994) in technical science, PhD (1996) in earth science
- Széchenyi Scholarship (2002-2005)
- Industrial experience(1975-1978) in Hungarian State Oil Company
- Research experience abroad (TNO Delft,1992; Oulu University, 1992; DMT Institute for Applied Geophysics, Bochum, 1993)
- Educational experience (subjects and time periods in education)

Period	Position	Employer
1978-1989	Research engineer	Technical University of Miskolc
1989-1997	Assistant research professor	University of Miskolc
1997-	Associate research professor	University of Miskolc

Courses	BSc/MSc/ Postgrad	Weekly hours	Comment
Fundamentals of geophysics	BSc	3l	
Earth science practice I.	BSc	4p	
Radiometry and radiation protection	BSc	1l+1p	optional
Applied geophysics	MSc	1l+1p	
Applied geophysics	MSc	2l+1p	in English for oil mining students
Global environmental geophysics	MSc	2l	
Special geophysics	Postgrad	1l	in geothermal or in oil mining engineering

- Since 1978 participation in teaching, currently underwriter of seven subjects
- Lecturer of geophysics and well logging courses in English in the traditional five-year MS training system and he was the lecturer of additional six courses as well.

- Professional skills and achievements

Book portions	2
Hungarian publications	28
International publications	30
Hungarian & international conference presentations	45
Text books, work-help tutorials	6
Research reports and studies	32
Successful national and international application	3
Publications of reference	55

- Last 5 years scientific work (the most important 5 publications linked up with the area of subjects lectured):

PETHŐ, G. (2012): Differential equations of FEM using electric dipole source for elongated structures with conductivity anisotropy, Kutatás és Innováció a Magyar Geotermiában, Miskolc, 2012. december, pp.70-86, ISBN 978-963-358-005-9

PETHŐ, G. (2012): Frequency Domain Electromagnetic Investigation on Elongated Conductivity Structures, Geosciences and Engineering, Vol. 1, No. 1, pp.271-282, HU ISSN 2063-6997
PETHŐ, G., VASS, P. (2011): Geofizika alapjai, elektronikus jegyzet, pp.1-331. http://digitalisegyetem.hu/elearning/contents.php?subject_ID=MFGFT6001T
PETHŐ, G., VASS, P. (2011): Geophysics (Gravity and radiometric methods) electronic textbook, pp. 1-46. http://digitalisegyetem.hu/elearning/contents.php?subject_ID=MFGFT6001T-EN
PETHŐ, G. (2009): FEM source effect investigation with 2.5D numerical modelling, 15th European Meeting of Environmental and Engineering Geophysics, Dublin, Near Surface 2009 Proceedings, P59

- The most important 5 publications related to scientific and professional life-work (different from the previous ones):

PETHŐ, G. (2007): EM parameters of 2.5-D FEM using electric dipole source in the transition zone. Presented in Intellectual service for oil & gas industry, Analysis, solutions, perspectives. Vol. 4. pp. 110-117, ISBN 978-963-661-761-5, Published by MU & USPTU, Miskolc
PETHŐ, G., FICSÓR, L. (2000): Some applications of frequency domain 2.5-D numerical modelling using HED sources. Presented in Intellectual service for oil & gas industry, Analysis, solutions, perspectives. pp. 172-176, ISBN 5-7831-0311-X, Published by USPTU, Ufa
PETHŐ, G., KAIKKONEN, P., VANYAN, L., L. (1995): Numerical modelling for the effect of a 2-D seafloor trench on sea-bottom EM measurements using horizontal electric dipole sources, Geophysica, Vol. 31., pp. 1-21, Helsinki
PETHŐ, G. (1994): CSAMT Numerical Modelling for 2D Thermal EOR Monitoring, EAPG-6th Conference and Technical Exhibition, Extended Abstracts of Papers, P547, Vienna
PETHŐ, G. (1987): Aspects of finite difference modelling of the electromagnetic field of an oscillating electric dipole. Geophysical Transactions, Vol. 33/2. pp. 113-122, Budapest

- Scientific/professional public activities and international relations

Period	Public body/delegation	Position
1974-	Association of Hungarian Geophysicists (AHG)	member
1981-84	Board of Mining Faculty (Univ. Miskolc)	member
1990-	AHG Committee of Engineering Geophysics	member
1993-	European Association of Geoscientists & Engineers	member
1994-2003	Environmental and Eng. Geophysical Society	member
1994-	AHG Nomination Committee	member
1995-	CSc, PhD Jury of award (HAS, Univ. Miskolc)	8 occasions member(5)/secretary(3)
1996-	Chamber of Hungarian Engineers	member
1997-2002	AHG North-Hungarian Group	secretary
1998-	Hungarian Academy of Science (HAS) Public Body	member
1999-2002, 2008-	HAS Geophysical Scientific Committee	member
2006-2012	AHG Nomination Committee	chairman
2011-	HAS Geophysical Scientific Committee	secretary