

Curriculum vitae:

Name: Mihály Dobróka DSc		Year of Birth: 1948																		
<i>Qualification(s), degrees granted by, year</i>																				
MSc in Physics, Kossuth Lajos University of Science, Debrecen, 1972																				
<i>Current employment, position(s)</i>																				
University of Miskolc, professor in Geophysics																				
<i>Scientific degree (field, year)</i>																				
Candidate of Technical Sciences 1986, Doctor of Technical Sciences 1996, dr. habil. University of Miskolc, 1996																				
<i>Teaching activities (classes taught, years spent in Academia, teaching in a foreign language, in a foreign institution, etc.)</i>																				
<table border="1"> <thead> <tr> <th>Dates</th> <th>Position</th> <th>Employer/Institution</th> </tr> </thead> <tbody> <tr> <td>1997-</td> <td>Professor in Geophysics</td> <td>Department of Geophysics, University of Miskolc (UM)</td> </tr> <tr> <td>1988-1997</td> <td>Associate Professor</td> <td>Department of Geophysics (UM)</td> </tr> <tr> <td>1983-1988</td> <td>Principal University Lecturer</td> <td>Department of Geophysics (UM)</td> </tr> <tr> <td>1977-1983</td> <td>Principal University Lecturer</td> <td>Department of Physics (UM)</td> </tr> <tr> <td>1972-1977</td> <td>Assistant Professor</td> <td>Department of Physics (UM)</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • <i>Years spent in academia:</i> 42 years • <i>Classes taught in Hungarian:</i> Geophysics, Geophysical Inversion, Geophysical interpretation • <i>Classes taught in a foreign language:</i> Engineering and mining geophysics (European Geotechnical and Environmental Course, University of Miskolc) 			Dates	Position	Employer/Institution	1997-	Professor in Geophysics	Department of Geophysics, University of Miskolc (UM)	1988-1997	Associate Professor	Department of Geophysics (UM)	1983-1988	Principal University Lecturer	Department of Geophysics (UM)	1977-1983	Principal University Lecturer	Department of Physics (UM)	1972-1977	Assistant Professor	Department of Physics (UM)
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<i>Professional experience so far and main achievements</i>																				
<p>Educational activity: his main subjects in education is Theoretical Physics and Geophysical Inverse Problem Theory for geophysicist studentst. He has lectures also in Geophysical Interpretation, Seismic- and Geoelectric Tomography. Prof. Dobroka is active in leading students in scientific work, his students won 17 awards (among the the Pro Scientia Award) in University level as well as State level scientific competitions.</p> <p>He is active also in the PhD Education since its begining in Hungary. He is the scientific leader of the „Applied Geophysical Research” Research Program running int he framework of the Mikoviny Sámuel Doctoral School of the Faculty of Earth Sciences and Engineering. Under the leadership of Prof. Dobroka 14 PhD students has been finished the PhD studies and received Absolutorium. As Pro-rector he was responsible (2004-2013) for the University level organization of the PhD education at the University of Miskolc. Presently he is the leader of the Mikoviny Sámuel Doctorial School in Earth Science (Faculty of Earth Science and engineering).</p> <p>Research Activity: Prof. Dobróka started his research work int he field of Plasma Physics. He defended his university level Doctoral Thesis also in this field at the Roland Eötvös University of Sciences (Budapest) in 1976. He applied his physical knowledge successfully in solving geophysical problems and gave a complete desription of “Guided channel waves propagating in an inhomogeneous coal seam structure” in his Candidate of Science Thesis. Continuing his scientific and educational activity at the Department of Geophysics he developed new methods (with co-authors) in the Joint Inversion of Geophysical Data and published the results in various international Journals. He defended his Doctor of Sciences Thesis (DSc) at the Hungarian Academy of Sciences in 1996.</p> <p>International Relations:</p>																				

Prof. Dobróka together work group has been continued successful research project with the Geophysics Institute of the Ruhr University, Bochum in the framework of the cooperation agreement between the Hungarian Academy of Sciences and the Deutsche Forschungsgemeinschaft. This research work was continued without break in more than 20 years. He leads also cooperation in research with the State University of Mining, Moscow, the Geophysics Department of Università degli studi "La Sapienza", Rome and Technical University of Helsinki. He is a member of the European Association of Geoscientists & Engineers (EAGE), the Society of Exploration Geophysicists (SEG), the Environmental and Engineering Geophysical Society (EEGS). As a member of the European Section of the EEGS he was also member of the group "Ethical standards and quality of work".

Number of scientific publications: 226

Cumulative impact factor: 24.981

Independent citations in journals: 336

Relationship of classes taught and scientific/research activities

a) The most important five publications of the last five years:

Szabó N P, Dobróka M: **Extending the Application of a Shale Volume Estimation Formula Derived from Factor Analysis of Wireline Logging Data.**, MATHEMATICAL GEOSCIENCES 45: (7) pp. 837-850. Paper 10.1007/s11004-013-9449-2. *impakt faktor: 1.440*

Szabó N P, Dobróka M, Drahos D: **Factor analysis of engineering geophysical sounding data for water saturation estimation in shallow formations**, GEOPHYSICS 77: (3) pp. WA35-WA44. *impakt faktor: 1.723*

Dobróka Mihály, Szabó Norbert Péter: **Interval inversion of well-logging data for automatic determination of formation boundaries by using a float-encoded genetic algorithm**, JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING 86-87: pp. 144-152. Paper 10.1016/j.petrol.2012.03.028. *impakt faktor: 0.997*

M. Dobróka, J. Somogyi Molnár: **New Petrophysical Model Describing the Pressure Dependence of Seismic Velocity**, ACTA GEOPHYSICA 60: (2) pp. 371-383. *impakt faktor: 0.910*

Dobroka M, Szabo N: **Interval inversion of well-logging data for objective determination of textural parameters**, ACTA GEOPHYSICA 59: (5) pp. 907-934. Paper 10.2478/s11600-011-0027-z. *impakt faktor: 0.617*

a) The most important five publications of the entire career:

R Misiek, A Liebig, A Gyulai, T Ormos, M Dobróka, L Dresen: **A joint inversion algorithm to process geoelectric and surface wave data**, GEOPHYSICAL PROSPECTING 45: (1) pp. 65-86. *impakt faktor: 0.477, független idéző közlemények száma: 36*

A Hering, R Misiek, A Gyulai, T Ormos, M Dobróka, L Dresen: **A joint inversion algorithm to process geoelectric and surface wave seismic data**, GEOPHYSICAL PROSPECTING 43: (2) pp. 135-156. *impakt faktor: 0.359, független idéző közlemények száma: 92*

M Dobróka, L Dresen, C Gelbke, H Rüter: **Tomographic inversion of normalized data: double-trace tomography algorithms.**, GEOPHYSICAL PROSPECTING 40: (1) pp. 1-14. *impakt faktor: 0.364, független idéző közlemények száma: 9*

M Dobróka, Á Gyulai, T Ormos, J Csókás, L Dresen: **Joint inversion of seismic and geoelectric data recorded in an under-ground coal mine.**, GEOPHYSICAL PROSPECTING 39: (5) pp. 643-665. *impakt faktor: 0.833, független idéző közlemények száma: 81*

J Csókás, M Dobróka, Á Gyulai: **Geoelectric determination of quality changes and tectonic disturbances in coal deposits.**, GEOPHYSICAL PROSPECTING 34: (7) pp. 1067-1081. *impakt faktor: 0.741, független idéző közlemények száma: 21*

Scientific/social activities, international memberships

Díjak, kitüntetések: Miniszteri Dicséret (1986), Kiváló Munkáért (1989), Egyed László emlékérem (2000), Eötvös Loránd Emlékérem (2013)

Knowledge of English, presentation/teaching experience

Language Certificate: Type C, intermediate level (Z:127215, 804051)

- *Teaching experience in English abroad:*
Ruhr University, Bochum, University of Rome, 'La Sapienza' (researcher and visiting professor)
- *Courses previously taught in English:*
Engineering and mining geophysics (EGEC, University of Miskolc)
- *Number of publications in English: 47*
- *Conference presentations in English: 52*