

## PERSONAL INFORMATION

**dr. habil Gábor Pethő**

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Date of birth: 01/06/1952 | Nationality Hungarian

## POSITION

**Private professor**

## WORK EXPERIENCE

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|----------------|--|
| 2017 – Present | <b>Private professor</b><br>University of Miskolc - Institute of Geophysics and Geoinformatics, Miskolc (Hungary)            |
| 2016 – 2017    | <b>Associate Professor Emeritus</b><br>University of Miskolc – Institute of Geophysics and Geoinformatics, Miskolc (Hungary) |
| 1997 – 2016    | <b>Associate Research Professor</b><br>University of Miskolc - Department of Geophysics, Miskolc (Hungary)                   |
| 1989 – 1997    | <b>Assistant Research Professor</b><br>Technical University - Department of Geophysics, Miskolc (Hungary)                    |
| 1978 – 1989    | <b>Research Engineer</b><br>Technical University - Department of Geophysics, Miskolc (Hungary)                               |
| 1975 – 1978    | <b>Well Logging Engineer</b><br>Hungarian Oil and Gas Trust, DKFÜ, Nagykanizsa (Hungary)                                     |

## EDUCATION / DEGREE

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| 2016 | <b>Dr. habil in Earth Sciences</b><br>University of Miskolc, Faculty of Earth Science and Engineering, Miskolc (Hungary)  |
| 1996 | <b>PhD in Earth Sciences based on CSc degree awarded by Hungarian Academy of Science in 1994.</b><br>Exploration area: EM method development, programming, numerical modelling, interpretation.<br>University of Miskolc, Faculty of Earth Science and Engineering, Miskolc (Hungary) |
| 1984 | <b>Dr. techn. univ. title</b><br>Exploration area: FEM FD modelling over 2D structures.<br>Technical University of Miskolc, Mining Faculty, Miskolc (Hungary)   |
| 1975 | <b>MSc in Geophysics</b><br>Topic: geological and geophysical applicability of gamma-gamma well logging method.<br>Technical University of Miskolc, Mining Faculty, Miskolc (Hungary)   |
| 1970 | <b>High-school graduation (Specialisation: mathematics)</b><br>Földes Ferenc Secondary School, Miskolc (Hungary)  |

PERSONAL SKILLS

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Mother tongue(s) Hungarian

Foreign language(s) Intermediate English state examination certificate.  
 Conference presentations, workshop participation, etc. in different countries: Gdansk (International Congress, 1986), Delft (university presentation, 1992), Oulu (university presentation, 1993), Vienna (EAPG, 1994), Ismaila (university presentation, 1996), Aarhus (EEGS, 1997), Sinaia (IAGA workshop, 1998), Amsterdam (EAEG, 2001), Aveiro (EEGS, 2002), Istanbul (EEGS, 2007), Dublin (EEGS, 2009), Paris (EEGS, 2012), Athens (EEGS, 2014).  
 In Hungary: regular MSc theoretical and practical lessons; EGEC; HOT Engineering training.

Communication skills Appropriate communication and presentation skills.

- Digital skills
- **GIS software:** Surfer
  - **Graphics software:** Paint
  - **OS:** Windows
  - **Office software:** MS Office, Grapher
  - **Programming skills:** BASIC, PASCAL, FORTRAN

ADDITIONAL INFORMATION

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- Honours and awards
- 2018 - Egyed László Medal - Association of Hungarian Geophysicists (AHG)
  - 2016 - Meritmedal – University of Miskolc
  - 2016 - Miner's Service Certificate (40 years) – Hungarian Mining Association
  - 2014 - Csókás János Award - Association of Hungarian Geophysicists (AHG)
  - 2013 - Certificate of appreciation - Association of Hungarian Geophysicists (AHG)
  - 2006 - Renner János Medal - Association of Hungarian Geophysicists (AHG)
  - 2002 - Széchenyi scholarship (2002-2005) - Ministry of Education
  - 1991 - Miner's Service Medal bronze degree - Industrial Ministry
  - 1989 - Certificate of merit - Association of Hungarian Geophysicists (AHG)
  - 1988 - Ministerial Commendation - Ministry of Education
  - 1983 - Rector's Commendation – Technical University of Miskolc
  - 1976 - Meeting of Young Experts - First presenter prize - AHG
  - 1975 - Students' Scientific Conference 1<sup>st</sup> prize - Technical University of Miskolc
  - 1975 - Commemorative Academic Medal silver degree - Technical University of Miskolc
  - 1974 - Students' Scientific Conference 2<sup>nd</sup> prize - Technical University of Miskolc
  - 1969 - Certificate of Appreciation – Maths Journal of High School – Ministry of Education
  - 1968 - Certificate of Appreciation – Maths Journal of High School – Ministry of Education

- Scientific interest
- Applied geophysics
  - Numerical modelling of EM geophysical methods
  - Geological and environmental applications of EM VLF method
  - Borehole geophysical methods and their applications
  - Geothermics
  - Radiometric characterization of effusive rocks
  - Geophysics in waterbase protection
  - Global geophysics
  - Plate tectonics (remanent magnetization, radiometric dating)
  - Synthesis of Earth Sciences disciplines

MSc Courses  
taught in English

Geophysics (3lectures/week), Well logging (2l), Introduction into applied geophysics (2l), Applied geophysics (2l+1p), Geophysical measurements (2p), Global environmental geophysics (1l+1p), Geophysical interpretation and prospecting (2l+2p); Production logging (HOT Eng. ); Environmental geophysics, Engineering&environmental geophysics (EGEC).

## Committe work

- Hungarian Academy of Sciences (HAS) Scientific Committee on Geophysics (secretary) (2013-2018)
- Hungarian Geological Society (member) (2010-)
- Editorial Board of Magyar Geofizika (member) (2009-)
- Hungarian Academy of Sciences, Geophysical Scientific Committee (member) (2008-)
- Association of Hungarian Geophysicists (AHG), Nomination Committee (president) (2006-2012)
- European Integration Studies Editorial Board (member) (2004-2020)
- HAS Miskolc Earth Science Subcommittee (member) (2002-)
- HAS Geophysical Scientific Committee (member) (1999-2002)
- Member of public body of Hungarian Academy of Sciences (1998 -)
- EAEG conference referee (1998-2005)
- Association of Hungarian Geophysicists (AHG) Presidency (member) (1997-2002)
- AHG North-Hungarian Group (secretary) (1997-2002)
- Chamber of Hungarian Engineers (member) (1996-2017)
- CSs (HAS), PhD (ME) evaluation committee (opponent) (1995-)
- AHG Nomination Commitee (member) (1994-2006)
- Environmental and Eng. Geophysical Society (member) (1994-2003)
- European Association of Geoscientists & Engineers (member) (1993-2019)
- Society of Petrophysicists and Well Log Analysts (SPWLA) Bp. Chapter (member) (1990-1994)
- AHG Committee of Engineering Geophysics (member) (1990-2001)
- Mining Faculty Board, Technical University of Miskolc (member) (1980-1984)
- Association of Hungarian Geophysicists (member) (1974-)

## Projects

- TÁMOP-4.2.2.A-11/1/KONV-2012-0049 project (KÚTFŐ)
- TÁMOP-4.2.2.A-11/1/KONV -2012-0005 project (CriticEL)
- TÁMOP-4.1.2-08/1/A-2009-0033 project (Development of BSc courses material of Earth Science and Engeneering Faculty, Miskolc)
- OTKA T049479: Inhomogeneity delination based on EM frequency soundings, topic leader (2005-2009)
- OTKA T030532: Detectivity investigation on near-surface inhomogeneities based on numerical modelling, topic leader (1999-2001)
- TEMPUS JEP-1353-91 Reports:
  - (1) Some Aspects of Frequency Domain EM Numerical Modelling of Two-Dimensional Structures using Magnetic Dipoles in Tandem Mode, Bochum, DMT, 1993.
  - (2) Feasibility study on Multi-Receiver Frequency Domain Electromagnetic Measurements, TNO Institute of Applied Geoscience, Delft, 1992

## Publications

MTMT ID: <https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=authors10003388>