

## CURRICULUM VITAE

1. **Family Name:** Fedor
2. **First Name:** Ferenc
3. **Date of birth:** December 24, 1969.
4. **Nationality:** Hungarian
5. **Civil Status:** married, two children
6. **Education:** Geologist Engineer



|                               |   |
|-------------------------------|---|
| <i>Institution</i>            | University of Miskolc   |
| <i>Period:</i>                | 01.09.1991-30.06.1996   |
| <i>Degree obtained:</i>       | Geologist Engineer, M.Sc. (40-B/1996)   |
| <i>Title of Dissertation:</i> | Genetical Aspects and Reservation of Hydrocarbons in the Area of Karcag-Bucsa |

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| <i>Institution</i>      | University of Miskolc  |
| <i>Period:</i>          | 01.09.1996-30.06.1999  |
| <i>Degree obtained:</i> | Earth Sciences, Ph.D (370/2004)  |
| <i>Thesis:</i>          | The origin of gases explored within the Inert Gas Zone, Hungarian Great Plain, Hungary |

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| <i>Institution</i>    | University of Pécs   |
| <i>Period:</i>        | 01.09.2011-18.06.2013  |
| <i>Qualification:</i> | Master of Business Administration, MBA (211/2013)  |
| <i>Thesis:</i>        | Valuation problems of knowledge-intensive SMEs, an Hungarian example – Valuation of GEOCHEM Ltd. |

7. **Language skills:** (1-basic level; 5-fluent)

| <i>Language</i> | <i>Reading</i> | <i>Speaking</i> | <i>Writing</i> |
|-----------------|----------------|-----------------|----------------|
| English         | 4              | 4               | 4              |
| Russian         | 1              | 1               | 1              |
| French          | 1              | 1               | 0              |

## 8. Professional knowledge and membership in professional bodies:

### Professional Bodies:

- Member of the Hungarian Geological Association (HGA) (since 1996); of the North Hungarian Regional Organization of HGA, member of executive committee (2003 – 2004).  
Member of the Geomathematical Section, member of the board (2006-2010), President (2016-).  
Member of the South Transdanubian Regional Organization of HGA, of the executive committee (since 2007).
- Member of the Hungarian Academy of Sciences, Territorial Committee of Pécs, X. Section - Committee of Geology and Mining (since 2014)
- Member of the American Association of Petroleum Geologists (AAPG), student member: 1998-2000, associate member (2000-2005), active member (since 2005)
- Member of the Subcommittee of Geomathematics (since 2010) and Organic Geochemical Subcommittee (since 2001) of the Committee of Minerology, Petrology and Geochemistry, Section of Earth Sciences, Hungarian Academy of Sciences.
- Member of the Engineering Chamber of Borsod-Abaúj-Zemplén county (register number: 05-1241: till 2006).
- Member of the Engineering Chamber of Baranya county (register number: 02-0986, since 2006).
- Member of the International Committee of Coal and Organic Petrology (ICCP) (since 2005).
- Member of Hungarian Mining and Metallurgical Society (since 2013).
- President of the Cluster of Applied Earth Sciences (since 2014)

### Expert Authorities:

EurGeol title:

Number: 1327 (since 19.10.2015.)

Hungarian Geological Service (FSZ-2/2014):

General Geology (till 19.08.2020);  
Geology of Mineral Resources (till 19.08.2020);  
Petroleum Geology (till 19.08.2020);  
Geology of geothermal energy (till 19.08.2020)

Engineering Chamber Of Hungary:

B-Sz/02-0986 (Drilling and Shaft, till 01.07. 2020)

GO-Sz/02-0986 (Hydrocarbon exploration and research, till 01.07. 2020)

## 9. Present Position:

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| Project Director:  | GEOCHEM Geological and Environmental Research, Consultancy and Service Ltd. (since: 01.10.2008)              |
| Managing Director: | PLATÁN Engineering Ltd. (since: 21.03.2007)<br>Professional manager of the Cluster of Applied Earth Sciences |
| Managing Director: | GEOCHEM Geological and Environmental Research, Consultancy and Service Ltd. (since: 02.03.2006)              |
| Managing Director: | GEOCHEM Nonprofit Ltd. (since 2012.12.27)  |

## 10. Professional Experiences: (see Others in detail)

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|---------------------|--|
| <i>Date:</i>        | 2011–up to date  |
| <i>Location:</i>    | Kozármisleny   |
| <i>Company:</i>     | PLATÁN Engineering Ltd.  |
| <i>Position:</i>    | CAPES professional manager   |
| <i>Description:</i> | Professional management of the Cluster of Applied Earth Sciences in the field of geosciences, project organization, contact building |

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|---------------------|---|
| <i>Date:</i>        | 2010.09 – up to date  |
| <i>Location:</i>    | Szeged  |
| <i>University:</i>  | University of Szeged  |
| <i>Position:</i>    | lecturer  |
| <i>Description:</i> | „Technical-economical Conditions of Constructing Radioactive Waste Repositories” course |

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| <i>Date:</i>        | 2010 – 2015           |
| <i>Location:</i>    | Kozármisleny          |
| <i>Company:</i>     | ALA-PETRO Ltd.        |
| <i>Positions:</i>   | Managing Director     |
| <i>Description:</i> | marketing, investment |

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|---------------------|---|
| <i>Date:</i>        | 2007 – up to date                                   |
| <i>Location:</i>    | Kozármisleny  |
| <i>Company:</i>     | Sycamore Engineering Ltd.                           |
| <i>Positions:</i>   | Managing Director                                   |
| <i>Description:</i> | project organisation, engineering consultancy (R&D) |

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| <i>Date:</i>        | 2006 – up to date  |
| <i>Location:</i>    | Kozármisleny (office), Kővágószőlős (laboratory)                               |
| <i>Company:</i>     | GEOCHEM Ltd.   |
| <i>Positions:</i>   | Managing Director, Project Director (since 2008)                               |
| <i>Description:</i> | project organisation, managing SMLAB investment, engineering consultancy (R&D) |

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| <i>Date:</i>        | 2004 – 2008  |
| <i>Location:</i>    | Pécs   |
| <i>Company:</i>     | MECSEKÉRC PPLC.  |
| <i>Positions:</i>   | Chief Engineer of R&D  |
| <i>Description:</i> | engineering planning, informatic project leader of Bataapáti Project |

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| <i>Date:</i>        | 09.1999-06.2003   |
| <i>Location:</i>    | Miskolc   |
| <i>Company:</i>     | University of Miskolc, Research Institute of Applied Chemistry, Department of Reservoir Engineering |
| <i>Positions:</i>   | Associate Researcher  |
| <i>Description:</i> | engineering R&D, rock-physics measurements, data evaluation, instrument and method development      |

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| <i>Date:</i>        | 09.1988-08.1991   |
| <i>Location:</i>    | Budapest  |
| <i>Company:</i>     | Geological Institute of Hungary<br>Department of the South-Transdanubian Region |
| <i>Positions:</i>   | Geological Technician   |
| <i>Description:</i> | technical administration  |

## 11. Publications:

|   |   |
|---|---|
| <i>In national conference publication:</i>      | 8 |
| <i>In national professional journals:</i>       | 1 |
| <i>In international conference publication:</i> | 6 |
| <i>In international professional journals:</i>  | 4 |
| <i>Notes, manuscripts, etc.:</i>                | 2 |

FEDOR, F.: *Computer evaluation of geochemical and hydrochemical data of some boreholes in the Mid-Great-Plain*, microCAD'97 International Computer Science Conference, Section

A: Geoinformatics, environment protection, February 26-27, 1997, Miskolc, pp. 117-123 (article in conference proceedings in Hungarian)

FEDOR, F.: *Analysis of Vitrinite Reflectance Data – Uncertainties that Arise in the Course of Sampling, Measuring and Interpreting* (Hungarian article with English abstract in conference proceedings) Forum of PhDs, section edition of the Faculty of Mining Engineers, 6. November, 1998, Miskolc, pp. 22-35.

FEDOR, F.: *Optical Methods for Measuring the Thermal Maturity of Organic Matter – a Review*, 2<sup>nd</sup> International Conference of Ph.D. Students, Section Engineering Sciences, University of Miskolc, 8-14. August, 1999, pp. 41-53 (article in conference proceedings in English)

FEDOR, F.: *Carbon Cycle in Hydrosphere – Biosphere – Atmosphere –Litosphere System – a New Model*, Conference of Ph.D. Students, 5. November, 1999, Miskolc (article in conference proceedings in Hungarian with English abstract)

FEDOR, F., KONCZ, I.: *New Possibilities for Measuring the Maturity of Organic Matter*, MOL Conference, 10-12. November, 1999, Siófok (manuscript – Hungarian)

FEDOR, F., HÁMOR-VIDÓ, M.: *Reflectance of Collotelinite Used as a Geothermometer*, In: I. Lakatos (ed): Progress in Mining and Oilfield Chemistry, Vol. 2., Novelties in Enhanced Oil and Gas Recovery, Akadémia, Budapest, 2000, pp. 303-314 (English article)

FEDOR, F., FEGYVERNEKI, S., HÁMOR-VIDÓ, M., LÖVEI, J.: *A Possible Way of Statistical Analysis in Case of Small Sample Size*, In: I. Lakatos (ed): Progress in Mining and Oilfield Chemistry, Vol. 3., Recent Advances in Enhanced Oil and Gas Recovery, Akadémia, Budapest, 2001, pp. 279-290 (English article)

FEDOR, F., HÁMOR-VIDÓ, M.: *Statistical Analysis of Vitrinite Reflectance Data – a New Approach*, Int. J. of Coal Geology, Vol. 55-56. Issues 3-4, 2003, pp. 277-294. (English article)

FEDOR, F.: *The Origin of Gases Explored Within the Inert Gas Zone, Hungarian Great Plain, Hungary*, Ph.D. Thesis, 2004

SZÜCS, I., FEDOR, F.: *Spatial Extension and Parameter Integration into the Safety Case – Examples from the Hungarian LLW/ILW and HLW Disposal Project*, in *Linkage of Geoscientific Arguments and Evidence in Supporting Safety Case* (workshop proceedings in English), OECD NEA No. 6119, 2007, pp. 163-165.

FEDOR, F., MÁTHÉ, Z., HÁMOS, G., SOMODI, G., JOBBIK, A., SZÜCS, I.: *Laboratory Pressure Pulse Decay permeability measurement of Boda Claystone, Mecsek Mts., SW Hungary* Physics and Chemistry of the Earth (2008), pp. S45-S53

FEDOR, F., KOVÁCS, L., BENKOVICS, I., SZÜCS, I.: *The New Conceptual Model in Boda HLW/SF Project, S-Hungary*, in Approaches and Challenges for the Use of Geological Information in the Safety Case for Deep Disposal of Radioactive Waste, 3<sup>rd</sup> AMIGO Workshop Proceedings, OECD NEA No. 6417, 2009, pp. 177-184 (workshop proceedings in English)

FEDOR, F., FEURER, V., GEIGER, J. MENYHEI, L., SZIKSZAI, ZS.: **Management of Mission-Critical Information in Bataapáti LLW/ILW Project, S-Hungary** in Approaches and Challenges for the Use of Geological Information in the Safety Case for Deep Disposal of Radioactive Waste, 3<sup>rd</sup> AMIGO Workshop Proceedings, OECD NEA No. 6417, 2009, pp. 198-204 (workshop proceedings in English)

FEDOR, F., MOLNOS, I., SZIKSZAI ZS., MENYHEI, L.: **Task-oriented Innovative Developments in Informatics at MECSEKÉRC Ltd**, in the *Hungarian Journal of Mining and Metallurgy*, 2008 (3), Vol. 141. pp. 35-39. (Hungarian article)

FEDOR, F., SOMODI, G.: **Interdisciplinary investigation of the Boda Claystone Formation – Geological scale and petrophysical properties**, in Pál-Molnár, E. (ed): Basin development and geological resources, Geolitera, Szeged, 2010, pp. 49-51. (Hungarian abstract)

FEDOR, F., ÁCS, P.: **Pore characterization and permeability analysis of shotcrete in NRWR, Bataapáti**, in: Hámos, G., Sámson, M. (eds): Geological, mining and technological results of first two chamber tunnelling of Hungarian LLW, Bataapáti, workshop proceedings of Pécs Board of HAS, Molnár, 2012, pp. 96-102 (Hungarian with English abstract)

HORVÁTH, J., KORONCZ, P., FEDOR, F., HLATKI, M.: **Petrophysical and geomechanical analysis of Upper Pannonian unconsolidated sandstones**, in Török, Á., Görög, P., Vásárhelyi, B. (eds) Civil Engineering and Rock Mechanics 2013, Hantken, Budapest, pp. 229-240 (Hungarian)

HORVÁTH, J., KORONCZ, P., FEDOR, F.: **Petrophysical and hydrodinamical investigation of unconsolidated rocks – measurement vs. empirical estimation**, in: Cvetkovic, M., Novak-Zelenika, K., Geiger, J. (eds) Geomathematics – from theory to practice, Croatian Geological Society, 2014, pp. 167-174

HORVÁTH, J., FEDOR, F., GEIGER, J.: **Grain size analysis and examination of the potential for estimating the hydraulic conductivity of Bánk-2 core samples**, in Cserny, T. Kovács-Pálffy, P., Kriván-Horváth, Á. (eds): 12th Meeting of the Hungarian-born professionals of Earth-related sciences (article collection), Budapest, 2014., pp. 267-270 (Hungarian)

KORONCZ, P., FEDOR, F.: **Experimental investigation of stress-dependent petrophysical behaviour of reservoir rocks**, in Cvetkovic, M., Novak-Zelenika, K., Horváth, J., Hatvani I.G. (eds) Geomathematics – present and future of geological modelling, Croatian Geological Society, 2016, pp. 83-87 (ISBN 978-953-59036-1-1)

FEDOR, F., MÁTHÉ, Z., KORONCZ, P., ÁCS, P.: **Results of mineralogical, petrological, geochemical and petrophysical laboratory measurements carried out on samples of BAF-2 and BAF-1,-1A drillholes**, in Dályay, V., Hámos, G. (eds): BCF Research - workshop, Molnár Nyomda és Kiadó, Pécs, 2016, pp. 52-62., ISBN 978-963-8221-60-5 (Hungarian)

## 12. Presentation, poster sessions

|   |               |
|---|---------------|
| <b>Hungarian presentations (as co-author):</b>          | <b>28 (8)</b> |
| <b>Hungarian poster sessions:</b>                       | <b>1</b>      |
| <b>Presentation in English (Russian by co-author) :</b> | <b>12 (1)</b> |
| <b>Poster sessions in English:</b>                      | <b>6</b>      |

FEDOR, F.: ***Computer Evaluation of Geochemical and Hydrochemical Data of Some Boreholes in the Mid-Great-Plain***, (oral presentation) microCAD'97 International Computer Science Conference, Section A: Geoinformatics, environment protection, February 26-27, 1997, Miskolc.

FEDOR, F.: ***Interactive Approach of a Geochemical Problem with the Help of a Computer Graphic Program*** (poster presentation), Conference of Young Professionals, Tata, 17-18. April, 1997.

FEDOR, F.: ***Geochemical Methods in Hydrocarbon Research***, (oral presentation) North Hungarian Regional Organization of the Hungarian Geological Association, Miskolc, 24. September, 1998.

FEDOR, F.: ***Analysis of Vitrinite Reflectance Data – Uncertainties that Arise in the Course of Sampling, Measuring and Interpreting***, (oral presentation), Forum of PhDs, section edition of the Faculty of Mining Engineers, Miskolc, 6. November, 1998.

FEDOR, F.: ***Optical Methods for Measuring the Thermal Maturity of Organic Matter – a Review***, (oral presentation in English) 2<sup>nd</sup> International Conference of Ph.D. students, Section Engineering Sciences, University of Miskolc, 8-14. August, 1999.

FEDOR, F., KONCZ, I.: ***Estimating the Maturity of Organic Matter, Applications and their Limits – a Critical Review***, (oral presentation) 19-20. October 1999, Veszprém

FEDOR, F., ***Carbon Cycle in Hydrosphere – Biosphere – Atmosphere – Litosphere System – a New Model***, (oral presentation) Conference of PhD Students, 5. November 1999, pp. 29-34.

FEDOR, F., KONCZ, I.: ***New Possibilities for Measuring the Maturity of Organic Matter***, (oral presentation) MOL Professional and Scientific Conference, 10-12. November 1999, Siófok.

FEDOR, F., HÁMORNÉ VIDÓ M.: ***Statistical Analysis of Collotelinite Reflectance Data – a New Approach***, (oral presentation) VII. Geomathematical Conference, 8. September 2000, Szeged.

FEDOR, F., HÁMOR-VIDÓ, M.: ***Statistical Analysis of Collotelinite Reflectance Data – a New Approach***, (oral presentation in English) 53<sup>rd</sup> Annual Meeting of the International Committee for Coal and Organic Petrology (ICCP) and the Society for Organic Petrology (TSOP), 12-19 August 2001, Copenhagen.

FEDOR, F.: ***A Possible Way of Statistical Analysis in Case of Small Sample Size***, (oral presentation) Seat of North Hungarian Regional Organization of the Hungarian Geological Association, 27.09. 2001, Miskolc.

FEDOR, F.: ***Analysis of the Origin of Fluids explored within the Inert Gas Zone of the Hungarian Great Plain***, (oral presentation) 24-25.10.2001, Veszprém.

FEDOR, F.: ***A Possible Way of Statistical Analysis in Case of Small Sample Size***, (oral presentation) Proceedings of the Geomathematical Section of the Hungarian Geological Association, 05.02.2002, Budapest.

FEDOR, F.: *A New Possibility for TTI Calculation for the Sediments in the Neogene Deep Basins*, 28-29.05.2003, Veszprém (oral presentation).

FEDOR, F.: *The Origin of Gases Explored Within the Inert Gas Zone, Hungarian Great Plain*, (Ph.D defense), 03.06. 2003, Miskolc (oral presentation).

FEDOR, F.: *The origin of gases explored within the Inert Gas Zone, Hungarian Great Plain, Hungary*, (poster presentation), 56<sup>th</sup> Annual Meeting of the International Committee for Coal and Organic Petrology- ICCP 12-18<sup>th</sup> September 2004, Budapest

FEDOR, F.: *Comparison of the Results of Revised and Traditional TTI Calculation in a Neogene Sedimentary Example*, (oral presentation), IX. Geomathematical Congress, 20-21.05.2005, Mórahalom.

SZÜCS, I., FEDOR, F.: *Spatial Extension and Parameter Integration into the Safety Case – (Examples from the Hungarian LLW/ILW and HLW Disposal Projects)*, (oral presentation in English), 2<sup>nd</sup> AMIGO Workshop, Toronto, 17-24.09.2005.

FEDOR, F.: *A Possibility for Modeling the Periodical Sedimentation* (oral presentation), X. Geomathematical Congress, 18-20.05.2006, Mórahalom.

FEDOR, F.: *3D Estimation of the Vitrinite Reflectance Values of Pannonian Sediments in the Jászág Basin and Environments – a New Approach* (oral presentation), XI. Geomathematical Congress, 10-12.05.2007, Mórahalom.

FEDOR, F., MÁTHÉ, Z., HÁMOS, G., SOMODI, G., JOBBIK, A., SZÜCS, I.: *A New Approach of Laboratory Permeability Measurement of Very Tight Rocks: Experimental Data of BCF, Mecsek Mts, SW Hungary* (poster presentation), 3<sup>rd</sup> International Meeting on Clays in Natural and Engineered Barriers for Radioactive Waste Confinement, Lille, 17-20.09.2007.

SZÜCS, I., MENYHEI, L., FEDOR, F., BERTA, ZS., BENKOVICS, I.: *Роль расширения пространственной геоинформации в сфере контроля за низко- и среднерadioактивными отходами в Венгрии*, Geoinform, Kiev, 26.03.2008 (co-author).

FEDOR, F., KOVÁCS, L., BENKOVICS, I., SZÜCS, I.: *The New Conceptual Model in Boda HLW/SF Project, S-Hungary* (oral and poster presentation), 3<sup>rd</sup> AMIGO Workshop on “Approaches and Challenges for the use of geological information in the safety case”, Nancy, 15-18.04.2008.

FEDOR, F., FEURER, V., GEIGER, J. MENYHEI, L., SZIKSZAI, ZS.: *Management of Mission-Critical Information in Bataapáti LLW/ILW Project, S-Hungary* (poster presentation), 3<sup>rd</sup> AMIGO Workshop on “Approaches and Challenges for the use of geological information in the safety case”, Nancy, 15-18.04.2008.

MENYHEI, L., SOMODI, G., FEDOR, F.: *Spatial Heterogeneity and Modeling of Geotechnical Data in the Environment of the Inclined Tunnels in Bataapáti*, XII. Geomathematical Congress, 28-30.05.2008, Mórahalom

FEDOR, F., FEURER, V., GEIGER J.: *Theoretical Sketch of a Data Base Management System in Case of Radioactive Waste Disposal to Geological Environment* (oral presentation), XIII. Geomathematical Congress, 21-23.05.2009, Mórahalom



FEDOR, F., SOMODI, G.: ***Interdisciplinary investigation of the Boda Claystone Formation – Geological scale and petrophysical properties***, Annual Meeting of Hungarian Geological Society, Szeged, 20-22.05.2010

FEDOR, F.: ***The Importance of Laboratory Petrophysical Measurements – possibilities and limitations***, (presentation), The First Central and Eastern European International Oil and Gas Conference and Exhibition, Siófok, 14-16.09.2011

FEDOR, F.: ***Uncertainty of porosity values calculated on the basis of He-pycnometry***, 4<sup>th</sup> HR-HU and 15<sup>th</sup> HU geomathematical congress “Geomathematics as Geoscience”, 23-25, May, 2012, Opatija

FEDOR, F., ÁCS, P.: ***Pore characterization and permeability analysis of shotcrete in NRWR, Bábaapáti***, workshop of Pécs Board of HAS, Pécs, 13.06.2012

FEDOR, F., FANCSIK, T., ZILAHY-SEBESS, L., MAROS, GY., KOVÁCS, A.CS., FÖLDES, T., MÁTHÉ, Z., HÁMOS, G., ÁCS, P., SOMODI, G.: ***Interdisciplinary investigation of Boda Claystone Formation – preliminary results***, 5<sup>th</sup> International Meeting on Clays in Natural and Engineered Barriers for Radioactive Waste Confinement, Montpellier, 22-25.10.2012.

NAGY, A., FEDOR, F., FEURER, V.: ***Purpose and limits of automation in laboratory practice***, 5<sup>th</sup> HR-HU and 16<sup>th</sup> HU geomathematical congress “Geomathematics as Geoscience”, 30 May-01 June, 2013, Mórahalom

HLATKI, M., FEDOR, F., CSICSÁK, J., SZULIMÁN, SZ.: ***Connection between injection well completion technology development, petrophysics and rock mechanics***, (előadás) 5<sup>th</sup> HR-HU and 16<sup>th</sup> HU geomathematical congress “Geomathematics as Geoscience”, 30 May-01 June, 2013, Mórahalom

HLATKI, M., FEDOR, F., CSICSÁK, J., SZULIMÁN, SZ.: ***Mechanism of reinjection to sandstones – a literary review***, 10<sup>th</sup> workshop of Hungarian Geothermal Section of HEC, Budapest, 20.06.2013.

HLATKI, M., FEDOR, F., CSICSÁK, J., SZULIMÁN, SZ.: ***Experiences of visits in Landau and Insheim Geothermal Power Plants***, 10<sup>th</sup> workshop of Hungarian Geothermal Section of HEC, Budapest, 20.06.2013.

HORVÁTH, J., KORONCZ, P., FEDOR, F., HLATKI, M.: ***Petrophysical and geomechanical analysis of Upper Pannonian unconsolidated sandstones***, Conference of Civil Engineering and Rock Mechanics, Budapest, 06.11.2013

HORVÁTH, J., KORONCZ, P., FEDOR, F.: ***Petrophysical and hydrodinamical investigation of unconsolidated rocks – measurement vs. empirical estimation***, 6<sup>th</sup> HR-HU and 17<sup>th</sup> HU geomathematical congress “Geomathematics - from theory to practice” , Opatija, 21-23.05.2014.

FEDOR, F., ÁCS, P., HORVÁTH, J., KORONCZ, P., TÖRÖK, E.: ***Petrophysical examinations and results of Upper Pannonian sandstones***, Sustainable geothermal energy utilization: Developments and results of MECSEKÉRC Plc. GOP-1.1.1-2012-0033 project – workshop, Pécs, 19.06.2014.

VÖRÖS, CS., FEDOR, F., HLATKI, M., MECSEKÉRC ZRT.: *Introduction of the laboratory instruments measuring fracture damage and fracture conductivity, developed in framework of the project Sustainable geothermal energy utilization*, Developments and results of MECSEKÉRC Plc. GOP-1.1.1-2012-0033 project – workshop, Pécs, 19.06.2014.

FEDOR, F., ÁCS, P., KORONCZ, P.: *Upscaling of petrophysical parameters – possibilities and limits in case of Boda Claystone (BCF)*, GEODISPOSAL 2014, Manchester, 24-26.06.2014.

HORVÁTH, J., FEDOR, F., GEIGER, J.: *Grain size analysis and examination of the potential for estimating the hydraulic conductivity of Bánk-2 core samples*, HUNGEO, Debrecen, 19-22.08.2014.

FEDOR, F., HLATKI, M., VÖRÖS, CS., CSICSÁK, J.: *Laboratory investigation of well completion technologies of water injection into unconsolidated sandstone formation*, XXX. Nemzetközi Olaj- és Gázipari Konferencia, Kiállítás, 2014.09.16-18., Siófok

FEDOR, F., ÁCS, P.: *Pore structure of Boda Claystone Formation, W-Mecsek, Hungary*, 6th International Conference on “Clays in Natural and Engineered Barriers for Radioactive Waste Confinement, March 23-26, 2015, Brussels

KORONCZ, P., FEDOR, F.: *Experimental investigation of stress-dependent petrophysical behaviour of reservoir rocks*, 8th HR-HU and 19th HU geomathematical congress “Geomathematics – present and future of geological modelling” Trakosčan, 26-28.05.2016

FEDOR, F., MÁTHÉ, Z., KORONCZ, P., ÁCS, P.: *Results of mineralogical, petrological, geochemical and petrophysical laboratory measurements carried out on samples of BAF-2 and BAF-1,-1A drillholes*, BCF Research - workshop, Pécs, 13.06.2016

FEDOR, F.: *SmartLab – a new concept of global geological laboratory service*, 35<sup>th</sup> IGC, Instrumental, experimental and laboratory-based developments in the Geosciences, 31.08.2016., Cape Town, SA

KORONCZ, P., FEDOR, F.: *Complex petrophysical investigation of pannonian-miocene shales – preliminary results of acoustic anisotropy measurements*, 35<sup>th</sup> IGC, Instrumental, experimental and laboratory-based developments in the Geosciences, 31.08.2016, Cape Town, SA

## Citations

HÁMOR-VIDÓ, M.: *The first hundred years of organic petrology in Hungary*, Földtani Közlöny, Vol.132. No.2, 2002, pp. 265-289, (FEDOR, 1998, 1999, FEDOR & KONCZ, 1999, FEDOR & HÁMOR-VIDÓ, 2000)

PIRONON, J.: *Fluid inclusions in petroleum environments: analytical procedure for PTX reconstruction*, ACTA PETROLOGICA SINICA, 2004 Vol.20 No.6 P.1333-1342

赵俊峰, 刘池洋, 王晓梅: *The factors influencing the measurement results of vitrinite reflectance*, COAL GEOLOGY & EXPLORATION, 2004 Vol.32 No.6 P.15-18

MON-YEN LIN: *Compositional studies of organic material with various maturity*, [www.geo.ncu.edu.tw/seminar/20071101A-rep.pdf](http://www.geo.ncu.edu.tw/seminar/20071101A-rep.pdf), 11/1, 2007 (presentation)

Sihra, K.K.: *Integrating vitrinite reflectance, Rock-Eval pyrolysis, fluorescence microscopy, and palynology of the Athabasca oil sands*, Kearn Lake area, northeastern Alberta, M.Sc Thesis, Faculty of Mathematics and Science, Brock University St. Catharines, Ontario, 2010

SCHMITT, Mayka, et al. Caracterização do sistema poroso de rochas selantes combinando-se adsorção de nitrogênio e intrusão de mercúrio. 2013.

LÁZÁR, Károly; MÁTHÉ, Zoltán. Claystone as a Potential Host Rock for Nuclear Waste Storage. 2012.

### 13. Field Trips / Conferences

- |                   |  |
|-------------------|--|
| 08.09.2016.       | business meeting, Paris, France  |
| 24.08-07.09.2016  | 35th IGC, Cape Town, South Africa  |
| 26.05-28.05.2016  | 8th HR-HU and 19th HU geomathematical congress, Trakosćan, Croatia   |
| 11.05-13.05.2016  | 7th annual international conference, „UTILIZATION OF MINERAL RESOURCES”, Olomouc, Czech Republic   |
| 23.03-26.03.2015  | „Clays in Natural & Engineered Barriers for Radioactive Waste Confinement – 6th International Meeting” Conference, Brussels, Belgium               |
| 24.06-26.06.2014  | Geodisposal Conference, Manchester, England  |
| 21.05-23.05.2014  | Geomathematical Congress, Opatija, Croatia   |
| 24.03-27.03.2014  | Business trip, Vinci Technologies, Nanterre, France  |
| 27.02-06.03.2014  | PDAC, Toronto, Canada  |
| 01.03-07.03.2013  | PDAC, Toronto, Canada  |
| 13.11-17.11.2012  | Der Geothermie Kongress 2012, Karlsruhe, Germany   |
| 22.10-25.10.2012  | „Clays in Natural & Engineered Barriers for Radioactive Waste Confinement – 5 <sup>th</sup> International Meeting” Conference, Montpellier, France |
| 31.07-22.08.2012  | Business trip and 34th IGC, Brisbane, Perth, Australia   |
| 23-25. 05.2012    | 4 <sup>th</sup> HR-HU and 15th HU Geomathematical Congress “Geomathematics as Geoscience”, Opatija, Croatia  |
| 18-19.05.2012     | Business trip, Warsaw  |
| 30.08-06.09.2009. | Business trip, San Francisco (Core Test Inc.), Houston (Corelab Inc.), Ithaca (PMI Inc.), USA  |
| 09-12. 07.2009.   | Business trip, Vinci Technologies, Nanterre, France  |
| 22-28.06.2009.    | Business trip and short course, Odelzhausen, Braunschweig, Germany   |
| 16-22.10.2008     | Business trip, Porotec laboratory in Hofheim; Quantachrome laboratory in Odelzhausen; Sy-LAB in Neupurkersdorf                                     |
| 16-20.09.2008.    | „Fault Zones: Structure, Geomechanics, and Fluid Flow” and CLAY CLUB workshop, London, GB  |
| 06-14.08.2008.    | International Geological Congress (IGC 33) Oslo, Norway  |

- 15-18.04.2008. AMIGO 3 Workshop, Nancy, France
- 17-20. 09.2007. „Clays in Natural & Engineered Barriers for Radioactive Waste Confinement – 3<sup>rd</sup> International Meeting” Conference, Lille, France
- 10-14.09.2007. AIG7 Conference, Stellenbosch, South Africa
- 23-25.01.2007. NEA IGSC „Safety Assessment” Conference, Paris, France
- 04-13.09.2006. CLAY CLUB workshop, Horonobe, Japan
- 05-10.11.2005. CLAY CLUB annual meeting, Paris, France
- 26-29.09.2005. „6<sup>th</sup> European Coal Conference”, Beograd, Serbia
- 17-24.09.2005. AMIGO 2<sup>nd</sup> workshop, Toronto, Canada
- 11-16.09.2005. „6<sup>th</sup> International Symposium on Applied Isotope Geochemistry (AIG-6)” Conference, Prague, Czech Republic
- 05-08.07.2005. CLAYTRAC project meeting and visiting Solexpert Ltd, Basel, Zürich
06. 2005. Visiting different underground laboratories (Grimsel, Mt. Terri URL, Switzerland; Bure, France) – for radioactive waste disposal.
03. 2005. „Clays in Natural & Engineered Barriers for Radioactive Waste Confinement – 2<sup>nd</sup> International Meeting” – Conference, Tours
2004. Invited Consultant – Ireland (Aurum Exploration, two weeks)
2001. 53<sup>rd</sup> Annual Meeting of the International Committee for Coal and Organic Petrology (ICCP) and the Society for Organic Petrology (TSOP), Conference. 12-19 August 2001, Copenhagen, Denmark
1997. University of Leoben, Institute of Geology (two weeks)
1994. Field trip to Scandinavia (Germany - Denmark – Sweden, 1 month)
1993. Field trip to Greece (1 month)
1991. Speleological expedition, France-Spain (1 month)
1988. Field trip to the USSR (Leningrad, two weeks)

#### **14. Selected Major Project References**

Mecsekérc Plc.: author or co-author of many different reports connectiong to Boda and Bataapáti projects

RHK Kht. – Paks: Conception Plan for Long Term Information Costudy. High Level Radioactive Waste Disposal Project. Co-author. (MECSEKÉRC Zrt. - 2008)

RHK Kht. – Paks: Bataapáti Project. Low- and Medium Level Radioactive Waste Disposal Project. Project Leader of Informatics. (MECSEKÉRC – 2006)

GEOPARD Ltd. – Pécs. Special Measurement Laboratory (SMLAB) Project. Completion of the technological plan, the consumer research, the marketing study and the feasibility study. (GEOCHEM)

MECSEKÉRC Co. – Pécs. Hydrodynamic analysis of Boda Claystone Formation's core samples. (University of Miskolc, Research Institute of Applied Chemistry, Department of Reservoir Engineering)

Bátatom Ltd. – Pécs: Consulting Engineering (Sycamore Engineering Ltd.)

Rotaqua Ltd. – Pécs: Consulting Engineering: Coal-bed methane. (GEOCHEM)

EASTMINE Ltd. – Budapest: Consultant services in the area of gold mineral resources. (GEOCHEM)

University of Miskolc, Research Institute of Applied Chemistry - Miskolc (1999-2003): Design, implementation and interpretation of porosity-, pressure pulse-decay permeability- and formation factor measurements. Completion of reports in reference to remote sensing and to high level radioactive waste disposal.

University of Miskolc, Department of Geology – Miskolc (1996-1999): Participation in the work of the Department: Practical instruction of the „Geology-Environment Geology” the „Geology of Hungary”, the „Petroleum Geology” and the „Structural Geology” subjects.

#### **Professional Interests:**

- Hydrocarbon exploration (maturity of organic matter, gas exploration)
- Availability of statistical analysis in case of small sample size
- Measurements and interpretation of the petrophysical parameters (porosity, pore-throat size distribution, permeability), questions of uncertainty
- General model of radioactive waste disposal, its informatical aspects, knowledge management
- SmartLab project

#### **15. Availability**

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