

Prof. Dr. habil. Pál Szakál's professional-scientific biography and bibliographic data

Place and time of birth: Becsvölgye, January 25, 1951.

Workplace: István Széchenyi University. Albert Kázmér Faculty of Mosonmagyaróvár

Professional studies, education, academic degrees

1970-75. József Attila University, Faculty of Science, Chemistry, Szeged, Certified chemist
(156/1975. 17.06.1975)

1979. József Attila University, Szeged, University doctorate (1375/1980)

1995. MTA-TMB Candidate of Agricultural Sciences (15.873/1995)

1998. Habilitation

1999. University teacher

Jobs and positions

1975-1979 József Attila University Szeged, Research Assistant

1979-1982 József Attila University Szeged, scientific associate

1982-1996 PATE Faculty of Agricultural Sciences, Mosonmagyaróvár university
assistant professor

1996-1999 PATE Faculty of Agricultural Sciences, Mosonmagyaróvár university
associate professor

1999-2016 NYME Faculty of Agricultural Sciences, Mosonmagyaróvár university
professor, head of department, chemistry department

2014-2016 Institute of Water and Environmental Sciences, institute director

2008-2016 Deputy Dean of Education

2016- University teacher

Educational work

1975-1980 Special college entitled Intensification of heterogeneous phase reactions

1978-1982 Chemical technology laboratory practice management

1982-1985 Management of biochemical laboratory exercises within agricultural
chemistry

1983-1987 Lectures on agrochemistry subject within agricultural chemistry in full
time, correspondence and additional departments

1982- Organic chemistry c. subject lecturer in full-time, correspondence and
additional departments

1987- Management of plant protection chemical and biochemical laboratory
practices

1987- Plant protection chemistry c. subject lecturer

1989- 94 Organic Chemistry. subject lecturer at the outsourced university education
in Dunaszerdahely

2003- Subject manager of the Department of Waste Management

Subjects: Air and water pollution, Environmental chemistry, Basics of environmental
protection technology, Industrial technologies and their wastes, Agricultural product

processing and their wastes, Radioecology, Wastewater and sewage sludge treatment and disposal, Waste management and recycling, water chemistry, colloids, water technology

Participation in Doctoral Education

https://doktori.hu/index.php?menuid=192&lang=HU&sz_ID=1670

List of Publications

<https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=10002364>

Statistics

<https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=10002364&view=pubTable>

Major research and results

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| 1976-1982 | Electroerosion production of organometallic compounds. |
| 1979-1982 | Saponification of pine resin and production of glycerine ester. Dunaújváros paper mill |
| 1980-1982 | Polymer coating of fillers in the plastics industry. Order from the Ministry of State and Culture |
| 1986- | Agricultural utilization of ion-exchanged zeolites |
| 1988- | Agricultural recycling of electroplating waste. Based on the research results, a plant was established |
| 1995-2000 | Supplementation of CaCO ₃ with macro and micro elements and its agricultural use, OMYA research. |
| 1996- | Addition of vinaigrette with macro- and microelements, use as a foliar fertilizer. FM licensed product. |
| 1997-2000 | Winning the INCO COPERNICUS tender, copper and zinc complexes produced from waste for agricultural use. With Danish, Austrian and Slovak partners. |
| 1998- | Agricultural utilization of metal complexes of sucrose |
| 1998- | Agricultural utilization of sewage sludge. Composting. |
| 1999-2003 | Environmental Chemistry c. writing a book, EU Brussels Leonardo Program |
| 2003- | Agricultural use of plant ash and ash (combustion by-product). |
| 2005- | Agricultural recycling of zinc-containing waste |
| 2006-2008 | Extraction, transformation and utilization of metal compounds from waste INTERREG III/A. HUSKUA 02/158 |
| 2006-2008 | Extraction, transformation and utilization of metal compounds from waste INTERREG III/A. HUSKUA 02/158 |
| 2010-2013 | Functional foods from regional sources." ETE program. HU-SK. . . . |
| 2012-2015 | Agricultural use of sewage sludge ECOSOILREM HUSK2007- /1101/1.2.1/0148 2013-2016 Optimizing the use of biological resources in the western in the Hungarian region, Vienna and Burgenland / Austria- Hungary's cross-border cooperation program, Biores HUSK/0901/121/0010 |
| 2012-2015 | Agricultural utilization of industrial waste-book chapter / TÁMOP- 4.1.1.C- 12/1/KONV-2012- 0018 |
| 2019-2023 | INTERREG V-A SLOVAKIA-HUNGARY COOPERATION PROGRAM |

Honors

1985	Ministerial award for excellent work
1986	Outstanding FEB Leader Memorial Medal
1989	Excellent FEB leader, Ministerial award
1993	Outstanding University Worker
2006	Innovation Grand Prix MTA
2015	Nagyváthy Award
2020	Trefort Ágoston Award
2021	Pro Universitate award

Scientific committees:

1975-	Association of hungarian chemists, member
1982-	Association of Hungarian Agrosiences, member MTA Soil, Agrochemical and Industrial Water Management Committee, member
1996-	ESA, member
1999-	Ame, Society of Agronomy, member
2014	Hungarian Hydrological Association, member

International relations:

- Austrian Research Center Seibersdorf
 - Royal Veterinary and Agricultural University Copenhagen, Denmark
 - Slovak Technical University, Bratislava
 - University of Glasgow (GB)
 - Porvoo Vocational College, Porvoo, Finland
 - Matej Bel University, Department of Chemistry, Banska Bystrica, Slovakia
 - University of Ss. Cyril and Methodius in Trnava
 - National Agricultural and Food Centre (NPPC)
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- Austrian Research Center Seibersdorf
 - Royal Veterinary and Agricultural University Copenhagen, Denmark
 - Slovak Technical University, Bratislava
 - University of Glasgow (GB)
 - Porvoo Vocational College, Porvoo, Finland
 - Matej Bel University, Department of Chemistry, Banska Bystrica, Slovakia
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