

	<p>Ing. Slavomír Hredzák, PhD. Institute of Geotechnics of the Slovak Academy of Sciences Watsonova 45, 040 01 Košice tel.: +421 55 7922600 E-mail: hredzak@saske.sk URL: http://ugt.saske.sk/pracovnici/zakladne-info/?user_no=4790&publication_author_id=0145481 https://www.sav.sk/index.php?lang=sk&doc=user-org-user&user_no=4790</p>								
<p>Current position(s): Senior Researcher Director</p>									
<p>Profile: Slavomir Hredzak received his Master´s degree in Mining Geology and Geological Prospecting from the Mining Faculty of the Technical University of Košice in 1989 and the Doctor´s degree in Mineralurgy & Environmental Technologies from the Technical University of Košice in 2001. He deals with the application of physical separation method, namely magnetic, electrostatic and magnetohydrostatic, as well as hydrocycloning in upgrading of metal ores, industrial minerals and also wastes from mining, mineral processing, metallurgy and power generation. He studies mineral composition of primary raw materials, mineral wastes and products of their beneficiation. He also solves applications of polycomponent mineral sorbents in contaminated waters treatment. He was a research team member of 13 international (e.g. FP7, NATO) and 29 domestic scientific as well as scientific-technical projects. He was a principal investigator of 1 VEGA project, 1 bilateral Slovak-Serbian project and 2 projects for technical practice. He was also an IGT SAS deputy in coordination of 3 projects within the scheme of EU structural funds and a principal investigator deputy of 4 VEGA projects. He is the co-author of 2 chapters in monographs, over 250 scientific contributions as well as of 70 research reports and expert opinions for mining, mineral processing and metallurgical plants (41 WOS publications, 50 papers in other reviewed journals, 188 conference proceedings papers (202 WOS, 42 Scopus and 183 other citations). He is a member of editorials boards of the following journals: Acta Montanistica Slovaca (Slovakia), Brown Coal Bulletin and Waste Forum (both Czech) and Recycling and Sustainable Development (Serbia). He is also external examiner for Bc. Tech, MSc. Tech courses in Mineral Processing and Waste Recycling, and PhD. course in Mineral Processing at the VSB - Technical University of Ostrava (Czech rep.) and PhD. course in Metallurgy at Technical University of Košice (Slovakia).</p>									
<p>Experience:</p> <table border="0"> <tr> <td>1989 - up to now</td> <td>Institute of Geotechnics of the Slovak Academy of Sciences in Košice</td> </tr> <tr> <td>2014 - up to now</td> <td>director</td> </tr> <tr> <td>2010 - 2013</td> <td>Head of scientific Department of of Physical and Physico-chemical Methods of Mineral Processing</td> </tr> <tr> <td>2004 - 2013</td> <td>statutory deputy of director</td> </tr> </table>		1989 - up to now	Institute of Geotechnics of the Slovak Academy of Sciences in Košice	2014 - up to now	director	2010 - 2013	Head of scientific Department of of Physical and Physico-chemical Methods of Mineral Processing	2004 - 2013	statutory deputy of director
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<p>Organisation of Scientific Meetings:</p> <ul style="list-style-type: none"> - executive chairman of organizing committees of scientific symposia series on Situation in ecologically loaded regions of Slovakia and Central Europe (since 2004) - member of Scientific boards of conference series in Serbia: ♦ International October Conference on Mining and Metallurgy, ♦ Recycling Technologies and Sustainable Development, ♦ International 									

Serbian Symposium on Mineral Processing, ♦Scientific and Professional Meeting
"ECOLOGICAL TRUTH"Eco-Ist (since 2006)

- member-corresponding of the International Organizing Committee of the International Coal Preparation Congresses on behalf of the Slovak republic (since 2009)
- member of Advisory board periodical conference „Waste Recycling“ (Ostrava – Košice – Miskolc – Krakov, since 2012),
- member of Advisory board periodical conference „Environment and Mineral Processing“, Ostrava (since 2014)

Projects:

VEGA 2/0175/11: Interaction of physical fields with fine-grained mineral materials in mineralurgical processes, 01/2011–12/2014, principal investigator

ASFEU – ŠF EÚ ITMS 26220120038: Research excellence centre on earth sources, extraction and treatment – 2nd phase , 03/2010–06/2014, responsible researcher for Institute of Geotechnics SAS

ASFEU – ŠF EÚ ITMS 26220220053: Slovak research-innovation platform on sustainable mineral resources, 01/2010–06/2013, responsible researcher for Institute of Geotechnics SAS

ASFEU – ŠF EÚ ITMS 26220120017: Research excellence centre on earth sources, extraction and treatment – 1st phase 05/2009–04/2012, responsible researcher for Institute of Geotechnics SAS

Project No. 13SR+CH: Bilateral Scientific & Technological Co-Operation Between Serbia and The Slovak Republic „Complex Processing and Utilization of Fly Ashes from Coal-Fired Power Plants“, 01/2004–12/2005, principal investigator

Five representative publications:

ORCID: 0000-0001-6802-9684

SCOPUS AUTHOR ID: 7801631175

1. ZUBRIK, A. - MATIK, M. - HREDZÁK, S. - LOVÁS, M. - DANKOVÁ, Z. - KOVÁČOVÁ, M. - BRIANČIN, J. Preparation of chemically activated carbon from waste biomass by single-stage and two-stage pyrolysis. In Journal of Cleaner Production, 2017, vol. 143, p. 643-653.
2. HREDZÁK, S. - MATIK, M. - LOVÁS, M. - ZNAMENÁČKOVÁ, I. - ŠTEFUŠOVÁ, K. - ZUBRIK, A. Separability of Calcined Magnesite Fines in Magnetic Field. In Inžynieria Mineralna - Journal of the Polish Mineral Engineering Society, 2015, vol. 16, no. 2(36), p. 183-188.
3. VEREŠ, J. – LOVÁS, M. – JAKABSKÝ, Š. – ŠEPELÁK, V. – HREDZÁK, S.: Characterization of blast furnace sludge and removal of zinc by microwave assisted extraction. In Hydrometallurgy, Vol. 129 (2012), No. 129-130, pp. 67-73.
4. ZUBRIK, A. – HREDZÁK, S. – TURČÁNIOVÁ, E. – LOVÁS, M. – BERGMANN, I. – BECKER, K.D. – LUKČOVÁ, M. – ŠEPELÁK, V. Distribution of Inorganic and Organic Substances in the Hydrocyclone Separated Slovak Sub-bituminous Coal. In Fuel, 2010, vol. 89, p. 2126-2132.
5. VÁCLAVÍKOVÁ, M. – GALLIOS, GP. – HREDZÁK, S. – JAKABSKÝ, Š. Removal of arsenic from water streams: An overview of available techniques. In Clean Technologies and Environmental Policy, Vol. 10 (2008), No. 1, pp. 89-95.

Awards / Memberships:

- awardee of “Honorary Esteem of Merit for the Slovak Mining Society” awarded in Banská Bystrica, November 29th, 2000,

- awardee of “Certificate of Merit of the Association of Slovak Scientific and Technological Societies” awarded in Bratislava, October 10th, 2007.

- awardee of decoration „For active work and merits in Slovak Mining Society“, awarded in Banská

Bystrica, 08.10.2015

- awardee of silver medal of the The Association of Slovak Scientific and Technological Societies „Merits for Science and Technology Development“, awarded in Košice, 28.04.2016.
- awardee of Commemorative coin at the occasion of 65th anniversary of faculty foundation “For support and help at faculty development”. Decorator: Dean of the Faculty of Materials, Metallurgy and Recycling of the Technical university in Košice (2017)
- awardee of gold Commemorative medal at the occasion of 255th anniversary of Mining Academy foundation in Banská Štiavnica and 65th anniversary of its continuator working Mining Faculty / Faculty of Mining, Ecology, Process Control and Geotechnologies of the Technical university in Košice “For cooperation between Faculty of Mining, Ecology, Process Control and Geotechnologies and Institute of Geotechnics SAS”. Decorator: Dean of the Faculty of Mining, Ecology, Process Control and Geotechnologies (2017)
- head of the Subbranch for Mineral Processing and Ecology in Mining of the Slovak Mining Society – a member of the Association of Slovak Scientific and Technological Societies (od 1999)
- member of Scientific Collegium of the Slovak Academy of Sciences for the Earth and Space Sciences (since 2010)
- vicepresident of the Slovak Mining Society a member of the Association of Slovak Scientific and Technological Societies (since 2014)
- member of Industrial board: Development And Realisation Workplace of RMETTHE Faculty of MEPCG the Technical University of Košice (since 2015)
- member of Presidium of the National Technology Platform for Research, Development and Innovation of Raw Materials (since 2014)
- member of Scientific board of the Faculty BERG TU Košice (since 2015)
- delegate of the National Technology Platform for Research, Development and Innovation of Raw Materials in the „European Technology Platform on Sustainable Mineral Resources“ (since 2017)
- member of Council of administration of the Research Center PROMATECH
- member of Commission for approving of mineral reserves at Ministry of Environment of the Slovak Republic (since 2018)