Curriculum Vitae

	Name	Piotr	Gender	Male	
	Academic Title		Professor		
Personal Information	College		sity of Science and Mining and Geoe		
	Discipline		Mining Engineerin	g (Geomechanics))
	Email		malkgeom@	agh.edu.pl	
	Mail Add.	F	niversity of Science faculty of Mining a Mickiewicza 30, 30	and Geoengineerin	g
Educational Background	Technology Thesis topic the shaft an 2001 Technology Thesis topic state of stre 2013 Technology Title of ach	Sc., Eng. in Minioty in Krakow, Facular in Krakow, Facular in Minioty in Krakow, Facular in Krakow, Facular in the vicinity of the D. Sc., Eng. in May in Krakow, Facular in Krakow, Fac	ng Engineering, A lty of Mining a storage in shaft p ty" lining Geomechan lty of Mining of geomechanical p of roadways' juncti Mining and Geolog lty of Mining and ole of cracks in the	GH University of protection pillar are ics, AGH Universions" gy AGH Universions Geoengineering	
Working Experience	2018 CU 2019 CU	AGH UST, Fac internship in (AGH UST, Fac AGH UST, Fac nhui UST, Hefei, (UMT UST, Xuzho	culty of Mining - a culty of Mining – 1 Geocontrol S.A., I culty of Mining – a culty of Mining – p China – Erasmus+ u, China – Visiting na – visiting profes	ecturer Madrid, Spain associate professor orofessor education progran as+ education prog	nme gramme
Research Interests	supprock		nd mines (especial		

	 rockburst hazards,
	• ground control,
	 monitoring of underground structures,
	the influence of mining exploitation on the surface and buildings
	1. Małkowski, P., Niedbalski, Z.: A comprehensive geomechanical method for
	the assessment of rockburst hazards in underground mining. International
	Journal of Mining Science and Technology, 2020, 30(3), pp. 345–355.
	2. Małkowski, P., Niedbalski, Z., Majcherczyk, T., Bednarek, Ł.: Underground
	monitoring as the best way of roadways support design validation in a long
	time period. Mining of Mineral Deposits, 2020, 14(3), pp. 1–14.
	3. Malkowski, P., Ostrowski, L.: Convergence monitoring as a basis for
	numerical analysis of changes of rock-mass quality and hoek-brown failure
	criterion parameters due to longwall excavation. Archives of Mining
	Sciences, 2019, 64(1), pp. 93–118.
	4. Niedbalski, Z., Małkowski, P., Majcherczyk, T.: Application of the NATM
	method in the road tunneling works in difficult geological conditions – The
	Carpathian flysch. Tunnelling and Underground Space Technology, 2018, 74,
	pp. 41–59.
	5. Małkowski, P., Ostrowski, Ł., Brodny, J.: Analysis of Young's modulus for
Major	Carboniferous sedimentary rocks and its relationship with uniaxial
Publications*	compressive strength using different methods of modulus determination.
	Journal of Sustainable Mining, 2018, 17(3), pp. 145–157.
	6. Małkowski, P., Ostrowski, L., Bachanek, P.: Modelling the small throw fault
	effect on the stability of a mining roadway and its verification by in situ
	investigation. Energies, 2017, 10(12), 2082.
	7. Małkowski, P., Ostrowski, Ł.: The Methodology for the Young Modulus
	Derivation for Rocks and Its Value. Procedia Engineering, 2017, 191, pp. 134–
	141.
	8. Małkowski, P., Niedbalski, Z., Majcherczyk, T.: Roadway design efficiency
	indices for hard coal mines. Acta Geodynamica et Geomaterialia, 2016, 13(2),
	pp. 201–211.
	9. Małkowski, P.: The impact of the physical model selection and rock mass
	stratification on the results of numerical calculations of the state of rock
	mass deformation around the roadways. Tunnelling and Underground Space
	Technology, 2015, 50, pp. 365–375.
	10. Małkowski, P.: Behaviour of joints in sandstones during the shear test. Acta
	Geodynamica et Geomaterialia, 2015, 12(4), pp. 399–410, A006.
	2017 – State of stress analysis for the planned mining in "Knurów-Szczygłowice" mine
	for years 2020-2040
Research Projects*	2017 – Analysis of the reasons the support deformation and loss of stability in face entry 2/I/385 in "Bogdanka" mine
	2018 – Analysis of state of stress and rockburst hazard risk in block E of seam 209
	after planned changes in mining operations in "Piast-Ziemowit" mine for 2016-2020
	atter planned changes in mining operations in "Plast-Ziemowit mine for 2010-2020

2018 – Analysis of mining operational time for roadway on level 960 in "Bogdanks mine 2018 – The designing of optimal support schemes for roadways on the depths higher than 1000 m for geological and mining conditions of JSW Ltd. Mines. 2018-now - The optimization of support systems for roadways in mines of Jastrzeb Coal Company 2019 – The design of cross-roads support on 530 level, "Bolesław Śmiały" mine 2019 – Verification of the longwall panel 830 gobs reconsolidation over roadway 1st in 405/2 seam in "Marcel" mine 2019 – research on rocks from the vicinity of designed tunnel on S-3 expressway 2020 – Research on waste and cement mixtures in the light of their applications underground mines 2020 – The measurements and analysis of loads on roadway support in "Bogdanks mine and others
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From 1990 Society of Mining Engineers & Technicians
From 2005 Polish Committee of Geotechnics
From 2006 Polish Society of Rock Mechanics
From 2007 International Society of Rock Mechanics
From 2009 expert of State Mining Authority (WUG) for bolting, support a
Professional geotechnical research
Membership From 2009 Polish Committee of Standardization
From 2014 expert of State Mining Authority (WUG) for shaft lining design and
monitoring
From 2015 expert of State Mining Authority (WUG) for rockburst hazard
From 2019 Section of Mining Technologies, Polish Academy of Science
From 2020 Section Editor of Archives of Mining Science
Ground control in underground mines
2. Rock mass quality evaluation – using different rock mass classifications (relationship
and parameters) Potential Research
3. Tomography on rocks or binds and mixtures using in mining and civil engineering
4. Investigations on rocks.
5. Support (incl. rockbolts) construction investigations (tunnels, mining roadways)
6. Research on space resources

^{*} Please list achievements of recent 5 years

^{**} This CV is intended to match Chinese and Polish Scientists within SPUC member universities, and Potential Research Projects is intended to apply for Sino-Polish or EU scientific cooperation projects.