

	TITLE	MAIN AUTHOR	COUNTRY	TYPE
1	FOSTERING INTERNATIONAL COOPERATION IN THE FIELD OF RAW MATERIALS – THE INTRAW PROJECT AND THE EUROPEAN INTERNATIONAL OBSERVATORY FOR RAW MATERIALS	DIEGO MURGUIA	ARGENTINA	ORAL
2	PARTICIPATORY LAND USE PLANNING FOR SAFEGUARDING ACCESS TO MINERAL DEPOSITS OF PUBLIC IMPORTANCE IN EUROPE. APPLYING THE QUICKSCAN TOOL IN THE MINATURA 2020 PROJECT	DIEGO MURGUIA	ARGENTINA	ORAL
3	DYNAMIC-COGNITION OF STRATEGIC MINERAL COMMODITY PRICES: AN EMPIRICAL ASSESSMENT	CARLOS ANTONIO TAPIA CORTEZ	AUSTRALIA	ORAL
4	THE STABILITY GRAPH FOR OPEN STOPE DESIGN – RECENT DEVELOPMENTS	FIDELIS TAWIAH SUORINENI	AUSTRALIA	ORAL
5	HORIZONTAL POST GAS DRAINAGE FOR MULTI-SEAM LONGWALL MINING	HUA GUO	AUSTRALIA	ORAL
6	INTEGRATED SITE GEOTECHNICAL, GROUNDWATER AND GAS STUDIES FOR MINE METHANE CAPTURE	QINGDONG QU	AUSTRALIA	ORAL
7	PANEL OPENING IN SUBLEVEL OPEN STOPE MINING USING MODELING SOFTWARE	RICARDO FERREIRA MASSABKI	AUSTRALIA	ORAL
8	REDUCING COSTS IN QUARRYING WITH OPTIMIZED DRILLING AND BLASTING DESIGN	RICARDO FERREIRA MASSABKI	AUSTRALIA	POSTER
9	REDUCING ORE DILUTION WITH ELETRONIC DETONATORS	RICARDO FERREIRA MASSABKI	AUSTRALIA	POSTER
10	“INNOVATIONS IN MINING EDUCATION – COLLABORATION AND FLEXIBILITY THE KEYS TO DEVELOPING GLOBAL UNDERSTANDING AND IMPROVING THE STUDENT EXPERIENCE”	STEPHEN THOMAS HALL	AUSTRALIA	ORAL
11	EVALUATION OF BULK ORE SORTING FOR PRE-CONCENTRATION OF COPPER ORE AT PANAUST PHU KHAM OPERATION	WALTER VALERY	AUSTRALIA	ORAL
12	GLOBAL TRENDS IN MINING PRODUCTION	CHRISTIAN REICHL	AUSTRIA	ORAL
13	THE FUTURE OF RAW MATERIALS INDUSTRY IN THE EU	ROMAN STIFTNER	AUSTRIA	ORAL
14	FLUOROPOLYMERS FOR HARSH CONDITIONS IN MINERAL PROCESSING	BRIGITTE NEUBAUER	BELGIUM	ORAL
15	SEEPAGE MODELING AND WATER RECOVERY IN MINING TAILINGS DAM	AMOUSSOU COFFI ADOKO	BOTSWANA	ORAL
16	A BREAKTHROUGH IN THE MINING SECTOR: PRE-CONCENTRATION BY AUTOMATIC SORTING	AARON SAMUEL YOUNG	BRAZIL	ORAL



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17	THE CHALLENGE FOR ACHIEVING SUSTAINABLE DEVELOPMENT THROUGH RESPONSIBLE SMALL-SCALE MINING IN INDIGENOUS AREAS IN BRAZIL	ADELSON LIMA GONÇALVES	BRAZIL	ORAL
18	USE OF SURFACE MINER MACHINES IN OPEN CAST MINING	ADILSON CURI	BRAZIL	ORAL
19	BOSCH INNOVATIONS FOR MINING SOLUTIONS	ALBERTO TEIXEIRA ABDO	BRAZIL	ORAL
20	DEVELOPMENT AND IMPLEMENTATION OF ASSET MANAGEMENT SYSTEM AT ANGLOGOLD ASHANTI BRAZIL	ALESSANDRO PACHECO DE SOUZA	BRAZIL	ORAL
21	THERMOPLASTIC POLYMER APPLICATION ON THE BEARINGS OF CONVEYOR BELTS AVOIDING CONTAMINATION OF THE BEARINGS AND AVOIDING PRODUCTION DOWNTIME	ALEX HERDY PILER	BRAZIL	ORAL
22	GEOMECHANICS ANALYSES OF “CUIABÁ” MINE ACCESS RAMPS OF ANGLOGOLD ASHANTI USING SEVERAL STATISTICAL ANALYZES	ALMIR DONIZETTE VICENTE GOUVEA	BRAZIL	ORAL
23	REDUCING ENVIRONMENTAL IMPACT THROUGH THE RECOVERY OF IRON ORE ULTRAFINES	ANA CLÁUDIA FRANCA GOMES	BRAZIL	ORAL
24	INDUSTRY SUSTAINABILITY KNOWLEDGE AND PRACTICE TO IMPROVE HEALTH, SAFETY AND ENVIRONMENTAL PERFORMANCE OF ARTISANAL AND SMALL SCALE MINING THROUGH CORPORATE SOCIAL RESPONSIBILITY PRACTICES: CASE STUDIES REVIEW	ANA CRISTINA RIBEIRO DUTHIE	BRAZIL	ORAL
25	A RISK-BASED FRAMEWORK FOR MANAGING MINE CLOSURE	ANA LUCIA SILVA TAVEIRA	BRAZIL	POSTER
26	PARTIAL DEACTIVATION OF MARBLE QUARRY IN OUROLANDIA – BA DUE TO ENVIRONMENTAL	ANA LUISA SANTOS LUZ	BRAZIL	POSTER
27	INFLUENCE OF PULSE FREQUENCY IN IRON ORE FINE PARTICLES JIGGING	ANDRÉ CARLOS SILVA	BRAZIL	ORAL
28	NAOH CONSUMPTION IN STARCHES GELATINIZATION FOR FROTH FLOTATION USE AS DEPRESSORS	ANDRÉ CARLOS SILVA	BRAZIL	ORAL
29	VIOLENT COAL PILLAR COLLAPSE	ANDRE CEZAR ZINGANO	BRAZIL	ORAL
30	A NEW APPROACH FOR BLASTING DESIGN IN HIGHLY WEATHERED ROCKS	ANDRÉ L. VIEIRA	BRAZIL	ORAL
31	ENERGY EFFICIENCY AND RELIABILITY OF ELECTRIC MOTORS	ANDRE LUIS MARTINS BAVIERA	BRAZIL	ORAL
32	THROUGH-THE-EARTH COMMUNICATIONS FOR AUTOMATION IN UNDERGROUND MINES	ANDRE NOLL BARRETO	BRAZIL	ORAL
33	FRAGMENTATION IMPROVEMENT IN BLASTING AND ITS BENEFITS IN MINE AND PLANT OPERATIONS THROUGH TECHNOLOGY AND INNOVATION	ANDRE ZECCHINI	BRAZIL	ORAL

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34	ANALYSIS OF POSSIBLE ENVIRONMENTAL IMPACTS ON THE EXTRACTION OF SHALE GAS IN BRAZIL	ANDRÉA DOS SANTOS GOMES	BRAZIL	ORAL
35	SOCIO-ENVIRONMENTAL ANALYSIS IN THE COAL MOATIZE BASIN, TETE PROVINCE, NORTHWEST OF MOZAMBIQUE	ANICETO ELCÍDIO ALVES MACIE	BRAZIL	POSTER
36	MINERAL BUSINESS: ON SUSTAINABILITY ASYMMETRIES	ANTONIO FERNANDO DA S. RODRIGUES	BRAZIL	POSTER
37	METHODOLOGY FOR DIMENSIONING UNDERGROUND EXCAVATIONS IN STRATIFIED ROCKS THROUGH ANALYTICAL FORMULATIONS AND COMPUTATIONAL MODELING	ARLO NÓBREGA DE ÁVILA	BRAZIL	ORAL
38	ANALYSIS OF THE MILLING CIRCUIT PERFORMANCE OF VALE FERTILIZANTES FROM ARAXÁ, MG	BARBARA GONÇALVES ROCHA	BRAZIL	POSTER
39	CATALYSIS FOR BIODIESEL PRODUCTION USING HETEROGENEOUS REJECT MAGNETIC MINING PHOSPHATE AS A CATALYST	BARBARA GONÇALVES ROCHA	BRAZIL	ORAL
40	MONITORING CH ₄ , CO ₂ AND CO CONCENTRATIONS ON THE AIR OF THE UNDERGROUND COAL MINES IN SOUTHERN BRAZIL	BEATRIZ BONETTI	BRAZIL	POSTER
41	REMOVAL OF METALS OF ACID MINE DRAINAGE BY PRECIPITATION AND BY ION EXCHANGE WITH ZEOLITE NaP1	BEATRIZ BONETTI	BRAZIL	POSTER
42	THE USE OF THE BLENDS ZEOLITE/BACKFILL FOR THE REMEDIATION OF ENVIRONMENTAL IMPACTS	BEATRIZ BONETTI	BRAZIL	POSTER
43	"ON TIME AND UNDER BUDGET? A REVIEW OF THE REASONS FOR DISAPPOINTING MINING PROJECT RESULTS IN RECENT YEARS FROM A CAPITAL AS WELL AS OPERATING COST PERSPECTIVE."	BORIS DE VRIES	BRAZIL	ORAL
44	ENTERPRISE OPTIMIZATION CASE STUDY: LARGO RESOURCES VANADIO DE MARACAS OPERATION, BRAZIL	BORIS DE VRIES	BRAZIL	ORAL
45	ELECTRONIC EXPEDITIOUS SYSTEM FOR DEPTH AND WATER EVALUATION IN BLASTING BOREHOLE	BRUNO HOEPERS SCHMIDT	BRAZIL	ORAL
46	NPV ANALYSIS OF MULTIPLE SURFACE CONSTRAINTS FOR PIT EXPANSION SCENARIOS	BRUNO TOMASI KUCKARTZ	BRAZIL	ORAL
47	IMPROVEMENTS IN SLOT RAISES OPENING IN CORREGO DO SITIO MINE	CARINE VAZ BRAGA	BRAZIL	ORAL
48	RISK ANALYSIS TO DECIDE THE USE OF A LHD (LOAD HAUL DUMP) EQUIPMENT WITH A REMOTE CONTROL DEVICE INSTALLED ON IT IN OPEN STOPE MINING METHOD	CARLOS DE SÁ ALVES	BRAZIL	ORAL

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49	ROCK MASS CHARACTERIZATION THROUGH CORE SURVEYS ANALYSIS IN IPUEIRA 6A MINE LEVELS N200 AND N210 SOUTH PANEL, ANDORINHA-BAHIA	CARLOS DE SÁ ALVES	BRAZIL	POSTER
50	COMPUTER AIDED EDUCATION IN MINING ENGINEERING AT UFMG - UNIVERSITY OF MINAS GERAIS	CARLOS ENRIQUE ARROYO ORTIZ	BRAZIL	ORAL
51	HAULAGE OPERATIONAL VARIABILITY IMPACT ON MINE PLANNING EXECUTION	CARLOS ENRIQUE ARROYO ORTIZ	BRAZIL	ORAL
52	PROFIT MAXIMIZATION IN THE TRANSITION PROCESS FROM SURFACE TO UNDERGROUND MINING METHODS	CARLOS ENRIQUE ARROYO ORTIZ	BRAZIL	ORAL
53	THE POWER CONSUMPTION AS INDICATOR TO SUSTAINABLE DEVELOPMENT: VISION FOR THE INDUSTRIAL SECTOR MINING AND PELLETIZING	CINTHIA DE PAIVA RODRIGUES	BRAZIL	POSTER
54	MINERS MUNICIPALITIES AND TERRITORIAL DEVELOPMENT: IN WHICH MEASURE MAJOR MINERALS PROJECTS CHANGES THE DYNAMICS OF MUNICIPALITIES AND PROMOTES THE SUSTAINABLE DEVELOPMENT OF TERRITORIES	CLÁUDIA FRANCO DE SALLES DIAS	BRAZIL	POSTER
55	THE LIFE CYCLE COST APPLIED INTO MINING EQUIPMENT: REPLACE OR REBUILD IT?	CLÉRIO SANTOS VIEIRA	BRAZIL	ORAL
56	IT X OT CONVERGENCE AS A FACTOR DO DRIVE PRODUCTIVITY IN MINING	CONSTANTINO SEIXAS FILHO	BRAZIL	ORAL
57	REDUCING BLOCK MISCLASSIFICATION IN SHORT TERM GRADE PREDICTION INCLUDING IMPRECISE AND INACCURATE DATA	CRISTINA DA PAIXAO ARAUJO	BRAZIL	ORAL
58	UAV DNPM PROJECT – USE IN MONITORING AND SURVEILLANCE OF MINING ACTIVITIES AND DAMS	CRISTINA PRANDO BICHO	BRAZIL	ORAL
59	EVALUATION OF ENVIRONMENTAL IMPACTS OF A POTASH PROJECT IN THE AUTAZES REGION, STATE OF AMAZONAS, AMAZON BIOME, BRAZIL	DANIEL BORGES NAVA	BRAZIL	ORAL
60	SPATIAL CONTINUITY MODELLING TOOLS - A NEW FREEWARE PLUG-IN FOR SGEMS	DAVID ALVARENGA DRUMOND	BRAZIL	POSTER
61	DETERMINING THE RELEASE OF MEASURE AND PHYSICAL PROPERTIES OF RESIDUE IRON ORE WITH THE PURPOSE OF ENRICHMENT ON THE STEPS OF MINERAL PROCESSING	DEFSSON DOUGLAS DE ARAÚJO FERREIRA	BRAZIL	POSTER
62	HEMATITE FLOATABILITY USING HALLIMOND TUBE AND EMDEE-MICROFLOT	DENILSON DA SILVA COSTA	BRAZIL	ORAL

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63	THE CHALLENGES OF THE MANAGEMENT OF THE SURFACE MINING EQUIPMENT	DENNIS TRAVAGINI CREMONESE	BRAZIL	ORAL
64	PRE-CONCENTRATION OF SILICATE ZINC ORE BY DENSITY AND MAGNETIC METHODS	DIMAS JOSE NETO	BRAZIL	POSTER
65	THE HARMONIZATION OF MINERAL INDUSTRY IN ENVIRONMENTALLY SENSITIVE REGIONS - THE CASE OF THE SPELEOLOGICAL COMPLEX OF RIO PERUAÇU - BRAZIL.	EDMILSON RODRIGUES DA COSTA	BRAZIL	POSTER
66	SIMULATION OF HOURLY PRODUCTIVITY APPLIED TO ELABORATION OF MINING PLANS	EDMO DA CUNHA RODOVALHO	BRAZIL	ORAL
67	A METHODOLOGY FOR THE EFFICIENT OPTIMIZATION OF LIFE-OF-MINE SCHEDULES, APPLIED TO LAMEGO MINE	EDUARDO CANÇADO PAMPONET LIMA	BRAZIL	ORAL
68	EVALUATION OF EXPLORATION PROSPECTS	EDUARDO VALE GOMES DA SILVA	BRAZIL	POSTER
69	SOCIAL LICENSE REVISITED	EDUARDO VALE GOMES DA SILVA	BRAZIL	ORAL
70	A SYNTHESIS OF THE STRUCTURAL EVOLUTION OF THE PEDRA LAVRADA MINING DISTRICT, SERIDÓ PEGMATITIC PROVINCE, NE BRAZIL	EMERSON DIEGO GOMES SALES	BRAZIL	POSTER
71	MINERAL ZONNING OF THE ALTO SERRA BRANCA PEGMATITE (NE BRAZIL): INSIGHTS FROM GEOLOGICAL MAPPING AND SURFACE PROSPECTING	EMERSON DIEGO GOMES SALES	BRAZIL	POSTER
72	THE ROLE OF BRITTLE STRUCTURES ON THE EMPLACEMENT OF MINERALIZED PEGMATITES IN THE PEDRA LAVRADA DISTRICT, NE BRAZIL	EMERSON DIEGO GOMES SALES	BRAZIL	POSTER
73	LITY IMPROVEMENT OF AN IRON ORE JASPER BY SELECTIVE MILLING	ERIVELTO LUÍS DE SOUZA	BRAZIL	ORAL
74	BAUXITE FINES RECOVERY VIA DESLIMING AND CONCENTRATION	EVERTON DE MELO DIAS	BRAZIL	ORAL
75	BUILDING 3D ROCK MASS RESISTANCE MODELS USING CONSISTENCY INDEX AND INDICATOR KRIGING	FABIANA ANDRESA REIS DA CRUZ	BRAZIL	POSTER
76	COLLABORATIVE GOVERNANCE FOR SUSTAINABILITY: A MULTI-STAKEHOLDER APPROACH TO DRIVE LAND USE, CONSERVATION AND SOCIAL AGENDA IN MINING AREAS	FABIO ABDALA	BRAZIL	ORAL
77	STRUCTURAL GEOLOGICAL CONDITIONING AND SUMMARY OF MAIN EVENTS IN MINERAL PEGMATITES SERIDÓ (PB-RN)	FABRICIO FERNANDES VIEIRA	BRAZIL	POSTER
78	OPTIMAL PROJECT SELECTION FOR OPEN PIT MINING	FELIPE LUZ BARBOSA DE CASTRO	BRAZIL	ORAL
79	FUTURE OF UNDERGROUND COAL MINING IN BRAZIL: IMPLEMENTATION OF LONGWALL MINING	FERNANDO ALVES CANTINI CARDOZO	BRAZIL	POSTER

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80	EVALUATION THE OPTIMUM LEVEL OF PARTICIPATION IN MINING PROJECTS SUBJECTS TO RISK AND UNCERTAINTY	FILIFE QUEIROGA FIGUEIREDO	BRAZIL	ORAL
81	MINERAL EXPLORATION PROCEDURE(S) IN BRAZIL UNDER A NEW LEGAL SCENARIO	GABRIELA SALAZAR SILVA PINTO	BRAZIL	ORAL
82	IGBT BASED HIGH POWER DRIVES FOR SALIENT-POLE SYNCHRONOUS MACHINES	GILBERTO DA CUNHA	BRAZIL	POSTER
83	THE LOSS OF PRODUCTIVITY AND COSTS ASSOCIATED WITH THE PREMATURE SCRAPPING OF MINING TRUCKS TIRES	HERNANI MOTA DE LIMA	BRAZIL	ORAL
84	ENVIRONMENTAL FEASIBILITY EVALUATION, TECHNICAL AND ECONOMIC GRAVEL EXTRACTION ACTIVITY IN ARES CITY - RN	ILANA MARIA DA SILVA SANTOS	BRAZIL	ORAL
85	GOVERNMENTAL AND REGULATORY INCENTIVES FOR EXPLORATION MINING ACTIVITIES IN BRAZIL: A QUICK REVIEW AND A PROPOSAL PROSPECTIVE.	ISRAEL LACERDA DE ARAÚJO	BRAZIL	ORAL
86	INCORPORATING MINERALOGICAL AND DENSITY PARAMETERS IN FERROUS RESOURCE EVALUATION USING MINERALOGICAL NORM CALCULATION	ISRAEL OLIVEIRA MORAES	BRAZIL	ORAL
87	CREDIT PROBLEM BY THE SMALL MINERAL SECTOR ENTERPRISES	JACQUELINE SCOTTON	BRAZIL	POSTER
88	MOTION FOR A MATHEMATICAL MODEL FOR SEDIMENTATION TEST	JAILSON DA SILVA SOUSA	BRAZIL	ORAL
89	SHORT-TERM SAMPLING GRID OPTIMIZATION	JAQUELINE LEPKOSKI MACHADO	BRAZIL	POSTER
90	UTILIZATION OF WASTE OF CAULIM AND GRANITE IN FORMULATION OF MASS CERAMIC FOR MANUFACTURING OF STONWARE PORCELAIN	JOÃO BATISTA MONTEIRO DE SOUSA	BRAZIL	ORAL
91	COST EVALUATION IN COAL MINING	JORGE DARIANO GAVRONSKI	BRAZIL	ORAL
92	DETERMINATION OF THE OPTIMAL GRANULOMETRY FOR ZN FLOTATION IN VOTORANTIM METAIS VAZANTE UNIT	JORGE LUCAS CARVALHO BECHIR	BRAZIL	ORAL
93	FEATURING THE NANOBUBBLES SCENARIO IN MINING AND MINERAL FLOTATION	JORGE RUBIO ROJAS	BRAZIL	ORAL
94	VOLATILITY AND RISK ANALYSIS OF LOW AND HIGH-GRADE IRON ORE SPOT PRICE SERIES	JOSÉ HENRIQUE DO VALLE PÁCOLA	BRAZIL	ORAL
95	ACTIVE SYSTEM FOR CARRYBACK REDUCTION IN OFF-HIGHWAY TRUCK	JOSE PAULO RODRIGUES FURTADO MENDONCA	BRAZIL	POSTER
96	DEVELOPMENT OF A MICROWAVE TECHNIQUE TO REDUCE HUMIDITY IN PELLETS AND/OR IRON ORE IN NATURE	JOSE PAULO RODRIGUES FURTADO MENDONCA	BRAZIL	POSTER
97	CASING CORRECTION OF DENSITY AND GAMMA RAY LOGS	JULIAN ESTEBAN MORALES RIVAS	BRAZIL	ORAL

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98	GEOPHYSICAL LOGGING FOR GEOTECHNICAL CHARACTERIZATION OF ROCK MASSES	JULIAN ESTEBAN MORALES RIVAS	BRAZIL	ORAL
99	A PROPOSAL FOR DATA MANAGEMENT: A NECESSARY TOOL FOR TECHNICAL STAFF AND MANAGERS	JULIANA MARQUES CARNEIRO HEBERLE	BRAZIL	ORAL
100	THE EFFECT OF CLEANER PRODUCTION TOLLS IN THE ACTIVITY OF EXPLOSIVE ROCK BLASTING	JULIO CESAR DE PONTES	BRAZIL	ORAL
101	MINING PLANNING OF GYPSUM EXPLOITATION WITH TERRACE MINING APPROACH	JÚLIO CÉSAR DE SOUZA	BRAZIL	ORAL
102	OPTIMIZATION OF MINING OPERATIONS WITH THE USAGE OF TIME AND MOTION STUDY AND SIMULATION BY MONTE CARLO METHOD	JÚLIO CÉSAR DE SOUZA	BRAZIL	ORAL
103	SIMULATION AND ANALYSIS OF FRAGMENTATION IN ROCK BLASTING IN THE QUARRY HERVAL - BARREIROS – PE	JÚLIO CÉSAR DE SOUZA	BRAZIL	POSTER
104	PRACTICAL IMPROVEMENTS TO A RING BLASTING TECHNIQUE IN A TRANSVERSE SUBLEVEL STOPING SCENARIO	L. A. BÜNDRICH	BRAZIL	ORAL
105	STABILITY STUDY OF QUARTZITE FROM KAOLIN ARTISANAL MINES AT JUNCO DO SERIDÓ STATE OF PARAÍBA, BRAZIL: A GEOMECHANICAL APPROACH	LEANDRO DE LIMA MAIA	BRAZIL	POSTER
106	PAYLOADS ANALYSIS USING TELEMTRY	LUCAS AUGUSTO TEIXEIRA	BRAZIL	POSTER
107	DEFINITION OF ORE RESERVES IN JURUTI BAUXITE MINE USING THE BENEFIT FUNCTION	LUCIANA DE CARVALHO MAIA	BRAZIL	POSTER
108	TECHNOLOGY ROADMAP ON TAILINGS MANAGEMENT AND NEW DISPOSAL	LUCIANA POSSEMATO DINARDI	BRAZIL	ORAL
109	DOES MINE LAND REHABILITATION RESTORE ECOSYSTEM SERVICES?	LUIS ENRIQUE SANCHEZ	BRAZIL	ORAL
110	FRAGMENTATION IMPROVEMENT TROUGH APPLICATION OF A NON-NEWTONIAN FLUID AS STEMMING COMPONENT. A CASE OF STUDY IN A QUARRY IN SAO PAULO, BRAZIL	LUIS FELIPE GOMES MARINHO	BRAZIL	ORAL
111	THE EFFECT OF THE PROPOSAL FOR A NEW BRAZILIAN MINING CODE ON THE MINING SECTOR	LUIZ ALBERTO DA CUNHA BUSTAMANTE	BRAZIL	ORAL
112	CONJUNCTURAL ANALYSIS OF BRAZILIAN MINING	LUIZ FELIPE QUARESMA OLIVEIRA	BRAZIL	ORAL
113	DETERMINATION OF GEOTECHNICAL MASS PARAMETERS IN THE PHASES OF EXPLORATION AND EXPLOITATION OF MINING THROUGH A WEB APPLICATION	LUMA ALVARENGA CARVALHO	BRAZIL	ORAL
114	GEOMETALLURGICAL MODELLING TO HELP IN PREDICTING ZINC MASS RECOVERY	MARA CÁSSIA ALVES VIEIRA	BRAZIL	ORAL



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115	MINE SEQUENCING UNDER HIDROGEOLOGICAL CONSTRAINTS	MARCELIO PRADO FONTES	BRAZIL	ORAL
116	LATERITIC PROFILES AND DEVELOPMENT OF CAVES IN SERRA NORTE, CARAJÁS, PARÁ STATE, BRAZIL	MARCELO ROBERTO BARBOSA	BRAZIL	POSTER
117	APPLICABILITY OF SOIL BIOENGINEERING TECHNIQUES IN THE PROVISION OF ENVIRONMENTAL SERVICES IN MINING AREAS: STUDIES ON RECOVERY OF DEGRADED AREAS	MARIA LUCIA SOLERA	BRAZIL	ORAL
118	LIMESTONE BRIQUETTES MECHANICAL STRENGTH EVALUATION THROUGH SHATTER TESTS	MARIANA REZENDE DE BARROS	BRAZIL	ORAL
119	CHARACTERIZATION OF CEMENTED BACKFILL FOR A POLYMETALLIC MINE	MARILIA ABRÃO ZENI	BRAZIL	POSTER
120	REMOTE SENSING APPLIED TO DETECTION OF MINING DEGRADED AREAS IN SOUTHERN BRAZIL BETWEEN 1985-2011	MATHEUS MONTES PIMENTA	BRAZIL	POSTER
121	CLAY MINING IN THE FORM OF COOPERATIVES	MATHIAS HEIDER	BRAZIL	POSTER
122	EVOLUTION OF MINING RIGHTS IN BRAZIL BETWEEN 2000 AND 2015	MATHIAS HEIDER	BRAZIL	POSTER
123	ANALYSIS SCENARIOS INVOLVING LOADING AND TRANSPORT OPERATIONS ON A MINE THE OPEN SKY USING SIMULATION	MAURO FROES MEYER	BRAZIL	POSTER
124	CHECK LIST OF CREA-RN APPLIED THE INSPECTION ACTIVITIES: A CASE STUDY IN CEMENT VOTORANTIM (UNIT MACAÍBA - RN)	MAURO FROES MEYER	BRAZIL	POSTER
125	ENVIRONMENTAL FEASIBILITY EVALUATION, TECHNICAL AND ECONOMIC ALLUVIAL OF SAND EXTRACTION ACTIVITY IN THE MUNICIPALITY OF MARINHO IELMO-RN	MAURO FROES MEYER	BRAZIL	POSTER
126	ENVIRONMENTAL IMPACTS GENERATED BY QUARTZITE MINING IN OURO PRETO	MAURO FROES MEYER	BRAZIL	POSTER
127	DETERMINATION OF PARAMETERS FOR CONSTRUCTION DECANTION SYSTEM OF CASSITERITE EXTRACTION DIGGING IN AREA IN THE SÃO FÉLIX DO XINGU CITY, PARÁ	MAYARA MACHADO GONCALVES	BRAZIL	POSTER
128	THE LOADING AND HAULING SIMULATION OF ORE OPERATION OF A BAUXITE MINE IN WESTERN PARÁ, BRAZIL.	MICHAEL JOSÉ BATISTA DOS SANTOS	BRAZIL	ORAL
129	THE INOVATON AS COMPETITIVE DIFERENTIAL IN THE BRAZILIAN MINING SECTOR	MIGUEL ANTONIO CEDRAZ NERY	BRAZIL	ORAL
130	UPDATE OF MOATIZE COAL MINE CLOSURE PLAN, MOZAMBIQUE. A NEW VISION OF FUTURE USE.	NEI DE MELLO RIVELLO	BRAZIL	ORAL
131	BLASTING ENERGY MANAGEMENT TO MAXIMIZE PRODUCTIVITY IN A TYPICAL BRAZILIAN QUARRY	PABLO RAMON DA SILVEIRA	BRAZIL	ORAL

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132	PRACTICAL HAUL ROAD DESIGN METHODOLOGY APPLICATION BASED ON SITE CHARACTERIZATION	PABLO RAMON DA SILVEIRA	BRAZIL	ORAL
133	RISK ANALYSIS APPLIED TO UNPLANNED DILUTION IN OPEN STOPE MINING METHODS	PAULO ANDRÉ CHARBEL	BRAZIL	ORAL
134	“SUSTAINABLE TERRITORIES”: INTEGRATED GOVERNANCE AND LOCAL STAKEHOLDER ENGAGEMENT IN THE AMAZON	PAULO AYRES MUSELLI DE MENDONÇA	BRAZIL	ORAL
135	THE CYCLONE OF THE FUTURE	PAULO LONGO	BRAZIL	ORAL
136	LINEAR PROGRAMMING IN THE ECONOMIC VIABILITY ANALYSIS OF MULTIPLE MINES PROJECT	PEDRO AUGUSTO COSTA SILVA	BRAZIL	POSTER
137	DESIGNING AND OPERATING A TAILINGS SAFETY MANAGEMENT SYSTEM: THE KEY SUCCESS ASPECTS	RAFAEL JABUR BITTAR	BRAZIL	ORAL
138	INTEGRATED MULTI GEOPHYSICAL DATA STUDY FOR POTASSIUM SALTS BODIES DELIMITATION	RAFAEL MARTINS DELLA FÁVERA	BRAZIL	ORAL
139	LIFE CYCLE MANAGEMENT FOR BRAZILIAN MINING: A CASE STUDY	RAFAEL SELVAGGIO VINAS	BRAZIL	ORAL
140	KS TECHNOLOGY IS THE SOLUTION FOR TAILINGS	RAISSA VIEIRA	BRAZIL	ORAL
141	BIOFACTORY FOR PRESERVATION OF FLORA BIODIVERSITY IN IRON MINING AREAS	RAMON DE PAULA BRAGA	BRAZIL	ORAL
142	FLOTATION OF COPPER ORE FROM SOSSEGO MINE UTILIZING PALM OIL AS COLLECTOR AUXILIARY	RAULIM DE OLIVEIRA GALVÃO	BRAZIL	POSTER
143	LEACHING OF ELECTRICAL STEEL MILL POWDER USING SULFURIC ACID SOLUTIONS	RAULIM DE OLIVEIRA GALVÃO	BRAZIL	POSTER
144	STUDY OF A NICKEL TAILING FLOCCULENT OF SUSPENSION DURING THICKENING	RAULIM DE OLIVEIRA GALVÃO	BRAZIL	POSTER
145	STUDY OF TIME INFLUENCE IN STATIC LAY LEACHING USING H ₂ SO ₄ OF COPPER ORE FROM SOSSEGO MINE	RAULIM DE OLIVEIRA GALVÃO	BRAZIL	POSTER
146	THE BRAZILIAN MINING COMPETITIVENESS IN LATIN AMERICA	RENAN COLLANTES CANDIA	BRAZIL	POSTER
147	NEW ORE CHARACTERISTIZATION METHOD IN HEAVY LIQUID SEPARATION WITH LIQUID INORGANIC AND APPLICATION IN JASPILITE IRON ORE SAMPLES	RICARDO ÁLVARES DE CAMPOS CORDEIRO	BRAZIL	ORAL
148	STOCHASTIC SIMULATION AS A TOOL FOR OPTIMIZING THE ALLOCATION OF MINING TRUCKS	RODRIGO CORREIA BARBOSA	BRAZIL	ORAL
149	BRAZILIAN, AUSTRALIAN AND CANADIAN MINING AND ENVIRONMENTAL LEGISLATION AND APPROVALS PROCESSES: A HIGH-LEVEL REVIEW FOR IRON ORE MINING OPERATIONS	RODRIGO DUTRA AMARAL	BRAZIL	ORAL

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150	SILO DESIGN CODES: RECOMMENDATIONS FOR A BRAZILIAN STANDARD	ROGERIO RUIZ	BRAZIL	ORAL
151	SUSTAINABLE MODEL OF RESTORATION AND REHABILITATION IN KAOLIN MINED AREAS AT CABO DE SANTO AGOSTINHO – PERNAMBUCO	ROMERO CESAR AFONSO DE MELO FILHO	BRAZIL	ORAL
152	GEOSTATISTICS APPLIED TO GEOMETALLURGICAL MODELING	RONALD SCHEFFER LEAL	BRAZIL	ORAL
153	FIRE PLAN PROPOSAL IN THE BLASTING OF CASSITERITE EXTRACTION DIGGING IN THE SAO FELIX DO XINGU CITY, PARÁ	SHERLANA KALINE DE LIMA NOGUEIRA	BRAZIL	POSTER
154	BRAZILIAN MINING INDUSTRY IN CRISIS TIMES	SILAS SAMUEL DOS SANTOS COSTA	BRAZIL	POSTER
155	MINING TOURISM AND GEOTOURISM: ALTERNATIVES SOLUTIONS TO MINE CLOSURE AND COMPLETION	SILAS SAMUEL DOS SANTOS COSTA	BRAZIL	ORAL
156	GOOD ENVIRONMENTAL PRACTICES ON MINING KARTS AREAS GUIDE	STEFANIE LINZMAIER FÉLIX PALMA	BRAZIL	ORAL
157	COMPARATIVE ANALYSIS OF ECONOMICS, OPERATIONAL AND ENVIRONMENTALS BENEFITS IN THE MINING METHODS TERRACE MINING AND OPEN PIT MINING: GIPSITE MINING CASE	SUELEN SILVA ROCHA	BRAZIL	ORAL
158	SHIELD AVALIATION WITH CHAINS ON TIRE OF THE OFF-ROAD TRUCK 777 F/G OF THE BAUXITE MINE IN PARAGOMINAS MINING S/A	SUELEN SILVA ROCHA	BRAZIL	ORAL
159	DILUTION CAUSED BY MINE EXECUTION INEFFICIENCY IN OPEN PIT MINING	TAÍS RENATA CÂMARA	BRAZIL	POSTER
160	CHARACTERIZATION OF THE INTRUSIVE BODIES FROM THE GOIAS ALKALINE PROVINCE USING GEOPHYSICAL INVERSION AND SELF-ORGANIZING MAPS	TELMA AISENGART SANTOS	BRAZIL	ORAL
161	THE BRAZILIAN GUIDE FOR EXPLORATION RESULTS, MINERAL RESOURCES AND MINERAL RESERVES: A NEW MEMBER OF THE CRIRSCO FAMILY	THOMAS LAFAYETTE BRENNER	BRAZIL	ORAL
162	FLOW MEASUREMENTS IN HYDROTRANSPORT UNITS USING GAMMA SCATTERING AND CROSS-CORRELATION TECHNIQUES	UMBERTO CASSARA DE CASTELLAMMARE SCOTT SICILIANO	BRAZIL	POSTER
163	USING GEOLOGICAL MAPPING AND SURFACE TRANSVERSAL PROFILES TO UNDERSTAND THE MINERAL DISTRIBUTION OF THE ALTO DO FEIO PEGMATITE, PEDRA LAVRADA REGION, NE BRAZIL.	VANDRIELE ALVES GENUÍNO	BRAZIL	POSTER
164	ISOVIBRATION AND ISOSUSTAINABILITY INDEX FOR BLAST VIBRATION CONTROL IN OPEN PIT IRON MINE	VIDAL FÉLIX NAVARRO TORRES	BRAZIL	ORAL
165	HIGH PRESSURE FILTERS FOR TAILINGS AND CONCENTRATES	VINICIUS DE SOUZA VILELA	BRAZIL	ORAL

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166	THE CHALLENGE OF WIRELESS CONNECTIVITY TO SUPPORT INTELLIGENT MINES	VIVIANE DA SILVA BORGES BARBOSA	BRAZIL	ORAL
167	BENEFITS OF DEPLOYING A FLEET MANAGEMENT SYSTEM IN MINING	WALTER SCHMIDT FELSCH JUNIOR	BRAZIL	ORAL
168	ONLINE QUALITY CONTROL IN MINING	WALTER SCHMIDT FELSCH JUNIOR	BRAZIL	ORAL
169	EXPERIMENTAL OF SHELLS MARINE POWDER USED IN PORCELAIN STONEWARE FORMULATION	YURI SOUZA GOMES	BRAZIL	POSTER
170	A NEW METHOD FOR ANALYZING AND ESTIMATING THE PRODUCTION COSTS USED TO DESIGN UNDERGROUND METALLIFEROUS MINING	GEORGI MIHAYLOV	BULGARIA	ORAL
171	ADVANCED STOOP-AND-ROOM SYSTEM TO THE DEVELOPMENT OF METADEPOSITS IN "ERMA REKA	GEORGI MIHAYLOV	BULGARIA	ORAL
172	PYRITE ACTIVATION BY MECHANICAL DESORPTION OF CALCIUM COATING	GRIGOROVA IRENA LYUBENOVA	BULGARIA	ORAL
173	SAMPLING TESTS OF METAL ACCOUNTING STREAMS IN ASSAREL CONCENTRATOR	GRIGOROVA IRENA LYUBENOVA	BULGARIA	POSTER
174	INVESTIGATION ON THE PRODUCTIVITY OF A VIBRATORY COLUMN FLOTATION MACHINE	KREMENA DEDELYANOVA	BULGARIA	ORAL
175	REPRESENTATIVE SAMPLING ? THE WAY TO THE PRECISE METAL ACCOUNTING	NICHKOV IVAN MIHAYLOV	BULGARIA	ORAL
176	ZINC DEPRESSION IN THE GALENA FLOTATION OF ERMA REKA CONCENTRATOR	NICHKOV IVAN MIHAYLOV	BULGARIA	ORAL
177	CHARACTERIZATION OF GOLD MINERALS USING SEM, XRF AND LIBS TECHNIQUES	GURINDER KAUR AHLUWALA	CANADA	ORAL
178	DATA STORAGE DEVICES-A REVIEW	GURINDER KAUR AHLUWALA	CANADA	ORAL
179	CHALLENGES OF MINES RESCUE IN EXPANDING MINE OPERATIONS	JAMES KENT ARMSTRONG	CANADA	ORAL
180	INTEGRATION OF AN EMPIRICAL APPROACH FOR EVALUATING THE DILUTION IN THE DESIGN OF OPEN STOPES IN DEEP MINES	JEROME ROBERT MARTEL	CANADA	ORAL
181	A CASE STUDY INVOLVING LOADER TEETH, THERMAL VISION, BIG DATA AND DEEP LEARNING	JODIE DAVIES	CANADA	ORAL
182	CHALLENGES IN MODELING GEOMECHANICAL HETEROGENEITY OF ROCK MASS USING GEOSTATISTICAL APPROACHES	KAMRAN ESMAEILI	CANADA	ORAL
183	AN INVESTIGATION INTO EFFECT OF MINE TAILING IN THE STRENGTH EVOULUTION OF CEMENTED MINE BACK FILL	KERMANI MEHRDAD	CANADA	ORAL

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184	EFFECT OF PARTICLE SIZE ON WEAR IN MINE BACKFILL DISTRIBUTION SYSTEMS DETERMINED USING A ROTARY TEST AND IN-SITU TESTING	KERMANI MEHRDAD	CANADA	ORAL
185	ADDING VALUE THROUGH DATA ANALYTICS: WHAT ARE THE REAL USED CASES?	NATHALIE VIENS	CANADA	ORAL
186	APPLYING INNOVATION FOR JUNIOR MINERS: HOW TO REALIZE VALUE WITH PRAGMATIC SOLUTIONS?	NATHALIE VIENS	CANADA	ORAL
187	DRILLING OPTIMIZATION AND SPARE PART MANAGEMENT	OMER FARUK UGURLU	CANADA	ORAL
188	UNDERGROUND MINING -THE DIFFERENCE BETWEEN OPTIMAL AND REAL	PAUL TIM WHILLANS	CANADA	ORAL
189	EXPERIMENTAL STUDY OF SUSTAINABLE EXTRACTION OF GEOTHERMAL HEAT FROM UNDERGROUND MINES IN CANADA	SEYED ALI GHOREISHI-MADISEH	CANADA	ORAL
190	MINING RESEARCH AND INNOVATION IN CANADA	VICTOR PAKALNIS	CANADA	POSTER
191	GREEN BLASTING: REDUCING OF CARBON FOOTPRINT THROUGH THE USE OF ELECTRONIC DETONATORS	ALEJANDRO GARZON SUCAR	CHILE	ORAL
192	EMPLOYABILITY ANALYSIS IN THE FUTURE OF MINING ENGINEER IN CHILE	JUAN PABLO HURTADO CRUZ	CHILE	ORAL
193	ESTIMATION OF THE CONSTRUCTION TIME OF AIR INJECTION TUNNELS 11 AND 12 OF THE UNDERGROUND CHUQUICAMATA PROJECT	JUAN PABLO VARGAS	CHILE	POSTER
194	SCALED ANALOGUE MODELS OF GEOLOGICAL AND MINING PROCESSES, AND DATA ACQUISITION SYSTEM OF REAL-TIME SURFACE AND INTERNAL DEFORMATION	PAMELA PAZ JARA MUÑOZ	CHILE	POSTER
195	COMPUTATIONAL FLUID DYNAMICS SIMULATION OF COOLING SYSTEM FOR COPPER SMELTER GASES BY TENIENTE CONVERTER WITH EVAPORATIVE COOLER	SEBASTIÁN PÉREZ	CHILE	POSTER
196	LONGWALL TOP-COAL CAVING MINING METHOD IN THICK AND EXTREMELY INCLINED COAL SEAM	JIACHEN WANG	CHINA	ORAL
197	DIELECTRIC PROPERTIES OF COAL'S SULFUR-CONTAININGMODEL COMPOUNDS AND MICROWAVE DESULFURIZATION OF BENZYL SULFIDE	TAO XIUXIANG	CHINA	POSTER
198	INTERBURDEN IMPACT ON MULTIPLE-SEAMS MINING OVER THIN OVERBURDEN IN LONGWALL MINING	YANG LI	CHINA	ORAL
199	ADSORPTION CHARACTERISTIC OF CH ₄ , CO ₂ , N ₂ UNDER ATMOSPHERIC STAGE	ZHENBAO LI	CHINA	ORAL

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200	UNDERGROUND EXPLOITATION OF NATURAL STONE IN CROATIAN LAYERED DEPOSITS	IVAN COTMAN	CROATIA	ORAL
201	RESPONSIBLE MINING OPERATION	VLADIMIR BUDINSKY	CZECH REP.	ORAL
202	INNOVATIVE SOLUTION FOR TRACK SHOE DEDICATED TO LARGE MINING SHOVELS CRAWLERS	BOUCHAUD FREDERIC	FRANCE	ORAL
203	ENERGY AUTOMATION AND HYBRIDIZATION: INTEGRATING RENEWABLE ENERGY INTO EXISTING MINE S GRID	JOHN OKORO	FRANCE	ORAL
204	CONSTRUCTING A VIRTUAL MINE TO ENABLE TRANSFORMATIVE INNOVATION	MARNI RABASSO	FRANCE	ORAL
205	SUBSURFACE SPATIAL PLANNING - A SUSTAINABLE APPROACH IN MINING	DR. AXEL PREUSSE	GERMANY	ORAL
206	MINING AND GERMAN "ENERGIEWENDE"	DR. ECHEHARD BÜSCHER	GERMANY	ORAL
207	MINING AS BASIS FOR THE "ENERGIEWENDE" (ENERGY TRANSITION)	DR. ECHEHARD BÜSCHER	GERMANY	ORAL
208	OPTIMIZING PROCESS EFFICIENCY IN MINING OPERATIONS BY FREQUENT MONITORING OF MINERALOGY AND PROCESS PARAMETERS USING MODERN X-RAY TECHNOLOGIES	DR. UWE KÖNIG	GERMANY	ORAL
209	PROCESSING RESIDUAL DRAINAGE	FALK SCHREITER	GERMANY	ORAL
210	THE ROLE OF BAUXITE ADDED VALUE DEVELOPMENT IN INDONESIAN ECONOMY: INPUT-OUTPUT ANALYSIS	FERDY FIRMANSYAH	GERMANY	ORAL
211	MINING OF CRITICAL AND STRATEGIC METALS IN SOCIALLY AND ENVIRONMENTALLY SENSITIVE AREAS IN NAMIBIA	GEORGE BARAKOS	GERMANY	ORAL
212	MINE PROJECT EVALUATIONS IN THE RISING OF UNCERTAINTY: REAL OPTIONS ANALYSIS	INTHANONGSONE INTHAVONGSA	GERMANY	ORAL
213	TAILINGS DAMS – MONITORING AND REHABILITATION	SCHWANK STEFAN	GERMANY	ORAL
214	ASSESSMENT OF WHOLE-BODY VIBRATION EXPOSURE OF DRILL OPERATORS IN OPENCAST IRON ORE MINES	ADITYA KUMAR PATRA	INDIA	ORAL
215	COAL MINE METHANE (CMM)	BALASWAMY AKALA	INDIA	ORAL
216	EMERGENCY EVACUATION AND RE-ENTRY IN UNDERGROUND COAL MINE: NEED FOR DECISION SUPPORT SYSTEM	CHANDRA SHEKHAR SINGH	INDIA	ORAL
217	IDENTIFICATION OF EXTENT OF BLAST-INDUCED CRACK DEVELOPMENT USING GROUND PENETRATING RADAR (GPR)	DEBASHISH MISHRA	INDIA	ORAL
218	ADDRESSING CLIMATE CHANGE - EFFORTS OF COAL INDIA LIMITED	DR. VINITA ARORA	INDIA	ORAL
219	SAFETY AND ENVIRONMENTAL MANAGEMENT IN OIL AND GAS MINING	G.P.KARMAKAR	INDIA	ORAL

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220	UNDERGROUND MINE MECHANIZATION IN NARROW AND WEAK MANGANESE DEPOSITS OF CENTRAL INDIA BY MOIL	GANESH GOPALRAO MANEKAR	INDIA	ORAL
221	FUTURE OF CONTINUOUS MINER TECHNOLOGY IN UNDERGROUND MINES IN INDIA	GOPAL PRASAD	INDIA	ORAL
222	FEASIBILITY OF CO ₂ SEQUESTRATION AS A CLOSURE PLAN FOR UNDERGROUND COAL MINE	KAUSHIK DEY	INDIA	ORAL
223	BLAST DESIGN AND VIBRATION CONTROL AT LEAD-ZINC UNDERGROUND MINES UNDERNEATH DENSLEY POPULATED AREA	M. P. ROY	INDIA	ORAL
224	ASSESSMENT AND CONTROL OF SOIL EROSION FROM HILLTOP IRON ORE MINES: A CASE STUDY	MHASKE SUSHIL NARAYAN	INDIA	ORAL
225	ASSESSMENT OF VIBRATION ATTENUATION, FREQUENCY SPECTRA AND STRUCTURAL RESPONSE CAUSED DUE TO BLASTING IN MINES	P. K. SINGH	INDIA	ORAL
226	ESTIMATION OF DIRECT GREENHOUSE GAS EMISSION FROM A FIRE AFFECTED OPEN CAST COAL MINE IN JHARIA COALFIELDS AND AN UNDERGROUND COAL MINE IN RANIGANJ COAL FIELDS, INDIA	P. K. SINGH	INDIA	ORAL
227	PERFORMANCE EVALUATION OF A DEWATERING CYCLONE BASED ON UNDERFLOW DISCHARGE PATTERN	RAKESH KUMAR DUBEY	INDIA	ORAL
228	SITE SPECIFIC TECHNOLOGY FOR PREVENTION AND CONTROL OF FIRE IN MINES DURING EXTRACTION OF COAL USING BLASTING GALLERY METHOD	RAN VIJAY KUMAR SINGH	INDIA	ORAL
229	MINE AUTOMATION AND IMPLEMENTATION OF INNOVATIVE TECHNOLOGY: A REVIEW IN INDIAN CONTEXT	SHAILENDRA KUMAR	INDIA	ORAL
230	ENVIRONMENTAL CLEARANCE OF GREEN FIELD COAL MINING PROJECTS IN INDIA: THE PROCEDURES AND CHALLENGES	SUDEEPTA KISHORE DASH	INDIA	ORAL
231	BIG DATA ANALYTICS FOR HYDROCARBONUPSTREAM INDUSTRY	SUNJAY SUNJAY	INDIA	POSTER
232	KAISER EFFECT INVESTIGATION IN ROCKMECHANICS	SUNJAY SUNJAY	INDIA	POSTER
233	UNDERGROUND COAL MINING IN INDIA	UPENDRA KUMAR	INDIA	ORAL
234	“ARCHEA BACTERIA” FROM COAL MINES –MICROBIAL TOOL FOR COAL TO METHANE CONVERSION	V. A. SELVI	INDIA	ORAL
235	OPTIMIZATION ON LONG TERM SUPPLY OF INDONESIAN COAL TO DOMESTIC MARKET	FADHILA ACHMADI ROSYID	INDONESIA	ORAL
236	GEOLOGY AND INDUSTRIAL APPLICATION OF MAGNESITE DEPOSITS OF EASTERN IRAN	KHOSROW EBRAHIMI-NASRABADI	IRAN	ORAL

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237	DEPLOYMENT OF APPLICABLE TECHNOLOGIES TO RECYCLE THE WATER FROM THICKENERS AND TAILING DAMS IN SANGAN IRON ORE MINES FOR A SUSTAINABLE WATER CONSUMPTION REDUCTION	RAVANBAKHS AMIRI	IRAN	ORAL
238	CONTROLLING AND IMPROVING OPEN-PIT MINING PROCESSES WITH BIG DATA ANALYTICS	GILAD SAADOUN	ISRAEL	ORAL
239	EXPERIENCES FROM EXPERIMENTAL MINING IN BRAZIL	MARILENA CARDU	ITALY	ORAL
240	AN INVERTED TRUNCATED CONE METHOD WITH CONSTRAINTS FOR OPTIMUM FINAL PIT DESIGN AND STRATEGIC PRODUCTION PLANNING	ABU BAKARR JALLOH	JAPAN	ORAL
241	DOES MINING SECTOR IMPROVES OR RETARDS GROWTH AND DEVELOPMENT? CASE STUDY OF BOTSWANA AND AUSTRALIA	KEGOMODITSWE KOITSIWE	JAPAN	ORAL
242	GASIFICATION ZONE EVALUATION USING AE TECHNOLOGY IN AN EX-SITU UCG EXPERIMENT USING AN ARTIFICIAL COAL SEAM	KEN-ICHI ITAKURA	JAPAN	ORAL
243	MODEL EXPERIMENT FOR CO-AXIAL UNDERGROUND COAL GASIFICATION SYSTEM DEVELOPMENT	KEN-ICHI ITAKURA	JAPAN	ORAL
244	MULTISTAGE FLOTATION OF MINE TAILINGS FOR COPPER AND NICKEL RECOVERY AND UPGRADING	REFILWE SANDRA MAGWANENG	JAPAN	ORAL
245	THE DEVELOPMENT OF MINING TOOLS FOR SEAFLOOR MASSIVE SULFIDES IN JAPAN -EXCAVATION TESTS ON THE 1,600 M DEEP SEAFLOOR-	SEIYA KAWANO	JAPAN	ORAL
246	ESTIMATION OF LONG TERM SUSTAINABILITY FOR SILVER SUPPLY	WENHUA LI	JAPAN	ORAL
247	IMPACT ANALYSIS BY MINE DEVELOPMENT AND MINING INDUSTRY MANAGEMENT	YOSHITAKA HOSOI	JAPAN	ORAL
248	DIVERSIFICATION OF THE MINING AND METALLURGIC COMPLEX IN KAZAKHSTAN	BAYAN RAKISHEV	KAZAKHSTAN	POSTER
249	FEATURES OF INTERNAL STACKING DURING MINING OF STEEP DEPOSITS	BAYAN RAKISHEV	KAZAKHSTAN	POSTER
250	SELECTION OF RATIONAL TECHNOLOGICAL SCHEMES OF OVERBURDEN OPERATIONS UNDER CONDITIONS OF EXCESSIVE WATERING	BAYAN RAKISHEV	KAZAKHSTAN	POSTER
251	CONCEPTION OF AUTOMATED MANAGEMENT OF GEOTECHNOLOGICAL COMPLEX ON AN INNOVATIVE BASE	GALIYEV SEITGALY ZHOLDASOVICH	KAZAKHSTAN	POSTER
252	THE LAW OF HEAP LEACHING OF METALS	RYSPANOV NURLAN BEKTASOVICH	KAZAKHSTAN	ORAL

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253	ESTIMATION OF INFLUENCE OF MINING-TECHNIKAL AND ORGANIZATIONAL CONDITIONS ON EFFICIENCY OF EXPLOITATION OF TRUCKS ON OPEN-PITS	SABITOV AGIBAY R	KAZAKHSTAN	ORAL
254	FEATURES OF INTERNAL STACKING DURING MINING OF STEEP DEPOSITS	SERIK MOLDABAYEV	KAZAKHSTAN	ORAL
255	IMPROVING RELOADING EQUIPMENT DURING COMBINED AUTOMOBILE-RAILROAD TRANSPORTATION	SERIK MOLDABAYEV	KAZAKHSTAN	ORAL
256	CURRENT SITUATION OF OPEN PIT MINING OF MONGOLIA AND TECHNICAL INNOVATION TO BE IMPLEMENTED	BAT-OCHIR BAYANTUR	MONGOLIA	ORAL
257	PRESENT ASSESSMENT FOR MINERAL RESERVES IN MONGOLIA AND ECONOMICALLY VIABLE POTENTIAL PROJECTS	BAT-OCHIR BAYANTUR	MONGOLIA	ORAL
258	BELT CONVEYOR DYNAMICS IN TRANSIENT OPERATION FOR SPEED CONTROL	DAIJIE HE	NETHERLANDS	ORAL
259	GEOREFERENCED MONITORING SYSTEM FOR OPEN PIT MESH NETWORKS	GARCIA TEJADA BRUNO ALEXANDRO	PERU	ORAL
260	METHANE IN POLISH COAL MINES - METHODS OF CONTROL AND UTILISATION	BOROWSKI MAREK	POLAND	ORAL
261	OPTIMIZATION TOOL FOR THE UNDERGROUND COAL MINE PLANNING	BRZYCHCZY EDYTA	POLAND	ORAL
262	THE IMPORTANCE OF ASSOCIATED NATURAL HAZARDS IN POLISH COLLIERIES.	BURTAN ZBIGNIEW	POLAND	POSTER
263	RECENT ACHIEVEMENTS IN INVESTIGATIONS OF DYNAMICS OF SURFACE MINING HEAVY MACHINES	DAMIAN PIETRUSIAK	POLAND	ORAL
264	THE ISSUE OF THE SIZE OF MAIN EXCAVATIONS PROTECTIVE PILLARS IN DEEP UNDERGROUND COPPER MINES	DANIEL PAWELUS	POLAND	POSTER
265	EVALUATION OF COMMINUTION EFFECTIVENESS FOR SELECTED "CRUSHER-MILL" CIRCUITS IN COPPER ORE PROCESSING	DANIEL SARAMAK	POLAND	ORAL
266	SEISMIC INTENSITY INDUCED BY MINING IN RELATION TO WEAK EARTHQUAKES	GRZEGORZ MUTKE	POLAND	ORAL
267	OBJECT MAP AS A MEAN OF CREATING COMPLETE INVENTORY OF INFRASTRUCTURE IN UNDERGROUND MINES	JACEK JAROSZ	POLAND	POSTER
268	DESIGNING OF LONGWALLS WITH HIGH OUTPUT CONCENTRATION IN THE VERY GASSY HARD COAL SEAMS	JACEK SKIBA	POLAND	ORAL
269	APPLICATION OF LASER SCANNING METHOD FOR MINE DRIFT NUMERICAL MODEL CONSTRUCTION	JAKUB JANUS	POLAND	ORAL

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270	SCORPIO N - REMOTELY CONTROLLED MOBILE ROBOT AND THE POSSIBILITY OF COST SAVINGS AND PROVIDE SECURITY	JOANNA GACEK	POLAND	ORAL
271	TRENDS AND DETERMINANTS OF HARD COAL EXPORT AND IMPORT IN POLAND IN RETROSPECTIVE AND PROSPECTIVE VIEW	JONEK-KOWALSKA IZABELA	POLAND	ORAL
272	COAL DUST EXPLOSION CONTROL IN POLISH INDUSTRY	KRZYSZTOF CYBULSKI	POLAND	ORAL
273	IMPROVEMENT OF DRAINAGE WELLS EFFICIENCY	KRZYSZTOF POLAK	POLAND	ORAL
274	ANALYSIS OF INTERDISCIPLINARY PRODUCTION DATA AS THE ROAD TO MODERN MINE MANAGEMENT	LESZEK BORKOWSKI	POLAND	ORAL
275	MONITORING SYSTEM OF ROCKBOLTING INTERACTION IN ROCK MASS CONDUCT UNDER SEISMIC ACTIVITY IN UNDEGROUND MINES	MACIEJ MADZIARZ	POLAND	ORAL
276	INNOVATIVE SOLUTIONS OF MINING MACHINERY FOR UNDERGROUND APPLICATIONS – COMMERCIALIZATION OF RESEARCH RESULTS	MALGORZATA MARIA MALEC	POLAND	ORAL
277	AN OVERVIEW ON THE USE OF COAL COMBUSTION RESIDUES IN ACTIVE AND ABANDONED COAL MINES	PALARSKI JAN	POLAND	ORAL
278	EXPERIENCES IN RECOGNITION OF GASO-GEODYNAMIC ZONES IN THE ROCK MASS OF COPPER ORE MINE USING GEOPHYSICAL METHODS	PILECKI ZENON	POLAND	ORAL
279	OPTIMIZATION OF WINNING BLASTING PARAMETERS CONDUCTED FOR GROUP OF FACES, AIMING FOR ELASTIC WAVE EFFECT AMPLIFICATION	PIOTR MERTUSZKA	POLAND	ORAL
280	CURRENTLY USED TECHNOLOGY OF SHAFT SINKING IN POLISH COPPER MINES – ANALYSIS OF WEAK POINTS, AND POSSIBILITY TO IMPROVEMENTS	SLAWOMIR SWITON	POLAND	ORAL
281	OPTIMIZATION OF THE ROCK MASS IDENTIFICATION METHODOLOGY	SLAWOMIR SWITON	POLAND	ORAL
282	SUPPORT OF MINING INVESTMENT CHOICE DECISIONS WITH THE USE OF MULTI-CRITERIA METHOD	SOBCZYK EUGENIUSZ JACEK	POLAND	POSTER
283	MONITORING AND COMBATING OF METHANE AND FIRE HAZARDS IN THE GOB OF LONGWALLS MINED WITH CAVE-IN IN HARD COAL MINES	STANISLAW WASILEWSKI	POLAND	ORAL
284	ANALYSIS OF BENEFICIATION OF VARIOUS COAL TYPES DEPENDABLY ON ANALYTIC MOISTURE OF RESEARCHED MATERIAL	TOMASZ NIEDOBA	POLAND	ORAL
285	A NEW DECISION SUPPORT TOOL FOR FAULT DIAGNOSIS, HAZARD PREDICTION AND ANALYSIS IN MINING INDUSTRY	WOJCIECH MOCZULSKI	POLAND	ORAL
286	A NEW DECISION SUPPORT TOOL FOR FAULT DIAGNOSIS, HAZARD PREDICTION AND ANALYSIS IN MINING INDUSTRY – A CASE STUDY	WOJCIECH MOCZULSKI	POLAND	POSTER

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287	TELERESCUER - AN INNOVATIVE ROBOTIZED SYSTEM FOR SUPPORTING MINING RESCUERS BY INSPECTING ROADWAYS AFFECTED BY CATASTROPHES	WOJCIECH MOCZULSKI	POLAND	ORAL
288	SUPPORT PERFORMANCE IN CONDITIONS OF DYNAMIC LOAD IN HARD COAL MINES	ZBIGNIEW LUBOSIK	POLAND	ORAL
289	SUSTAINABILITY ASSESSMENT OF THE MINING SECTOR IN BRAZIL	WELLINGTON ALVES	PORTUGAL	ORAL
290	CONSIDERATIONS ON THE QUALITY OF COAL PRODUCTION IN THE COAL-MINING DEPOSIT OLTENIA, ROMANIA	DOBRITOIU NICOLAE	ROMANIA	ORAL
291	DETERMINING THE OPTIMAL SOLUTION FOR THE EXECUTION OF UNDERGROUND MINING CONSTRUCTIONS, GIVEN THE GEOLOGICAL AND MINING CONDITIONS	DOBRITOIU NICOLAE	ROMANIA	ORAL
292	CURRENT ISSUES OF THE LIGNITE DEPOSIT EXPLOITATION IN ROMANIA	PREDOIU IONUT	ROMANIA	POSTER
293	MASSIF GEODYNAMICS AND GEODYNAMIC DIVISION INTO DISTRICTS UNDER MINING	MALINNIKOVA OLGA	RUSSIA	ORAL
294	MODELING OF GEOMECHANICAL PROCESSES IN ROCK MASSIF AT MINING OF SOLID MINERALS DEPOSITS	MALINNIKOVA OLGA	RUSSIA	ORAL
295	LARGE-SCALE EXPLOSIVE DESTRUCTION OF ROCK MASSES IN UNDERGROUND MINING	OSOKIN ALEKSANDR	RUSSIA	ORAL
296	CURRENT MINING AND ITS SUSTAINABLE DEVELOPMENT IN THE SLOVAK REPUBLIC	ERVÍN KUBRAN	SLOVAK REP.	ORAL
297	REAL OPTIONS VERSUS TRADITIONAL DCF METHODS IN INVESTMENT OF A MINING PROJECT – A CASE STUDY OF KOREAN OVERSEA COAL MINING PROJECT	HYUNBOCK, LEE	SOUTH KOREA	ORAL
298	CHARACTERISTIC VARIATION OF PRECIPITATE IN LIMESTONE LAYER OF SAPS	LEE, DONG-KIL	SOUTH KOREA	POSTER
299	ASSESSMENT OF LEAN SPEED OPTIMIZATION APPLICATION IN A CYCLIC HAUL OPERATION	DAVID RYLANDER	SWEDEN	ORAL
300	WEAR MONITORING: INTELLIGENT INTERIOR COATINGS FOR SLURRY PIPE LINES AND OTHER HIGH WEAR MINING EQUIPMENT	MAGERSTAEDT MICHAEL	SWITZERLAND	ORAL
301	AN INVESTIGATION OF SURFACE PASTE DISPOSAL FOR LEAD-ZINC UNDERGROUND MINE TAILINGS	ATAC BASCETIN	TURKEY	ORAL
302	CREATION PRINCIPLES OF THE CONCEPT OF COMPLEX DEVELOPMENT OF TECHNOGENIC DEPOSITS OF UKRAINE	VOLODYMYR BONDARENKO	UKRAINE	ORAL



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303	RISK ANALYSIS OF FIRE EVENTS IN U.S UNDERGROUND COAL MINES FROM 2000 TO 2012	ALI HAGHIGHAT	USA	ORAL
304	TENABILITY ANALYSIS FOR IMPROVEMENT OF FIREFIGHTERS' PERFORMNCE IN A METHANE FIRE EVENT AT A COAL MINE WORKING FACE	ALI HAGHIGHAT	USA	ORAL
305	INVESTIGATING THE SAFETY ASPECT OF MAJOR VENTILATION CHANGES IN A MULTI-PARRALEL SURFACE FANS	ARASH HABIBI	USA	ORAL
306	LARGE COPPER CONCENTRATOR DESIGN – TYPES OF FLOWSHEETS, EQUIPMENT SELECTION AND INDUSTRY TRENDS	DAVID MEADOWS	USA	ORAL
307	COMBINING FLEXIBILITY WITH CONVEYOR BASED MINING	KARL INGMARSSON	USA	ORAL
308	NEW JOINING TECHNOLOGIES FOR HDPE PIPE	NATHAN BENJAMIN MAINS	USA	POSTER
309	BENEFICIATION OF INDUSTRIAL MINERALS USING A TRIBO-ELECTRIC BELT SEPARATOR	PAUL JOSEPH MIRANDA	USA	ORAL
310	THE QUESTION: WHICH EXPLOSIVE TO USE? ANFO, EMULSIONS OR BLENDS?	PAUL NICHOLAS WORSEY	USA	ORAL

Dear Author,

If your paper is not listed and you had your abstract approved and delivered the full paper until May 9, 2016, please inform the WMC Secretariat by e-mail to secretary@wmc2016.org.br

This list still under construction by the Scientific Committee.

The final list of qualified papers to be presented at the 24th WMC will be informed at the Program after the confirmation of the author's payment, due to August 30, 2016.

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Regards,

WMC Secretariat