

Article Title	Date	Author	Author Info	Page number
How Can the Bituminous Coal Industry be Placed on a More Stable Basis	June 28, 1911	Taylor, Samuel A.		17 to 33
Pillar Drawing	June 1, 1911	Cunningham, F.W		35 to 62
Action of the Roof	June 1, 1911	Hall, R.D.		63 to 76
Big Pillar System of Mining	June 1, 1911	Silliman, W.A.		76 to 89
Loss of Life in Coal Mines as Compared With other Hazardous Occupations	June 1, 1911	Johnston, Jesse K.		90 to 98
Mine Gases, With Special Reference to Mine Fires and the Effect of Carbon Monoxide on Small Animals and Men	June 1, 1911	Burrell, G.A.		99 to 124
Stagnation in Coal Business	June 1, 1911	Elikin, Justice John P.		125 to 13
Individual Betterment	June 1, 1911	Reed, John		133 to 13
Developments of the Bureau of Mines	June 1, 1911	Wilson, H.M		136 to 14
United States Government Work in the Canal Zone	June 1, 1911	Taylor, S.A.		142 to 16
Lubrication	June 1, 1911	Ward, C.E.		161 to 16
Geology of Indiana County	June 1, 1911	Hall, R. Dawson		168 to 19
The Coal Trade	December 1, 1911	Parker, Dr. E.W.		192 to 19
Liability and Compensation(Discussion)	December 1, 1911			195 to 20
Minimum Age for Employment (Discussion)	December 1, 1911			203 to 21
Falls of Coal and Roof (Discussion)	December 1, 1911			213 to 22
Which is the Best Motor? (Discussion)	December 1, 1911			224 to 22
Protection of the Pumps from Corrosion (Discussion)	December 1, 1911			227 to 23
Steam Power Plants	December 1, 1911	R.W.		231 to 25
A Remarkable Coal Formation	December 1, 1911	Johnston, Jesse K.		251 to 26
Special Methods of Testing for Mine Gases	December 1, 1911	Crane, W.R.		264 to 27
The Installation and Maintenance of Telephone, Signal, and Power Leads in Mines	December 1, 1911	Wier, E.M.		279 to 28
The Composition of Simple Mine Gases, and a Description of a Simple Methane Apparatus	December 1, 1911	Burrell, G.A.		285 to 29
The Price of Bituminous Coal Compared with Prices of Materials Used in Mining	December 1, 1911	Zern, E.N.		299 to 30
Electrical Signals for Mine Maps	December 1, 1911	Clark, H.H.		308 to 31
Electrical Signals for Mine Maps	December 1, 1911	Randolph, H.		317 to 32
Lignite Mining in Colorado	December 1, 1911	Griswold, C.T.		321 to 33
Coal Fields of the World with Some Statistics and Data Thereon	December 1, 1911	Taylor, S.A.		331 to 34
Safety First	June 1, 1913	King, Austin		5 to 11

Article Title	Date	Author	Author Info	Page nu
The Pittsburgh Bed of Coal, It's origin, After Influneces, Quality, It's Distribution of Quality, It's Market and Tonnages.	June 1, 1913	Boileu, John W.		12 to 23
Efficiency Thought as to Coal Mining	December 1, 1913	Emerson, Harrington		50 to 78
Safeguarding the Use of Electricity in Mines	December 1, 1913	Brehm, Clyde G.		79 to 88
A Study of the Wages and Selling Price of Coal in the Pittsburgh District	December 1, 1913	Johnston, Jesse K.		89 to 98
Rescue Work After Mine Disasters (Discussion)	December 1, 1913			118-128
Accidents and Nationality (Discussion)	December 1, 1913			130-137
Rule 18 of Pennsylvania Bituminus Mine Law (Discussion)	December 1, 1913			137-142
Experiments with Small Animals and Carbon Monoxide	December 1, 1913	Burrel, G.A., Seibert, F.M		145-158
Basic Coke	December 1, 1913	Campbell, J. R.		158-167
Collection of Coke Samples for Analysis	December 1, 1913	Keighley, F.C.		167-172
Basic Coke and Coke Samples (Discussion)	December 1, 1913			173-183
Portable Electric Mine Lamps	December 1, 1913	Clark, H.H.		184-202
Method of Timbering and Quality of Timber	June 1, 1914	Lauder, William		7 to 10
Possible Substitutes for Mine Posts	June 1, 1914	Smith, H.I		11 to 21
Method of Timbering with References to Over-lying Strata and Geological Formation	June 1, 1914	Seddon, William		10
The Advancement in Bituminous Coal Mining During the Last Forty Years	June 1, 1914	Taylor, A		21 to 22
Relative Frequency of Accidents in Machine and Pick Mining	June 1, 1914	Cameron, A.P.		22 to 26
"The Coal Mining Institute; It's future"	December 8, 1914	President J. K. Johnston		39-41
Is the Longwall system applicable to the Pittsburgh Seam of Coal?		Mr. William Seddon and S. A. Taylor		42-45
What is a Safet Voltage to Use in Coal Mines		Mr. John I. Pratt		46-49
Do Compensation Laws Increase or Decrease Accidents in Coal Mines		E. N. Zern		50-53
The Advantages and Disadvantages in the Use of Portable Electric Lamps		George H Deike		54-60
Address of Professor C. M Young		C. M Young	University of Kansas	61-62
Government Control with relation to the coal mining industry		T.L. Lewis	Editor, Mining Review Columbus Ohio	68-72
Foreign Coal Trade of the United States	December 9, 1914	Mr. Edward W Parker	Wilks-Barre PA	73-78
The last stand of the Mine Roof		Mr. R. Dawson Hall	Associate Editor Coal Age	79-86
Report on Portable Electric Mine Lamps		C. M Means	Pittsburgh PA	87
Personal Observations in Alaska		Dr. W.R. Crane	State college PA	87-95

Article Title	Date	Author	Author Info	Page number
Mining of Frozen Ground in Alaska		US Inspector of Mines, Summer Smith	Juneau, Alaska	96-97
Explosion Experiments in the government experimental mine		LM Jones	Mining engineer, US Bureau of Mines	97-
Question Box: To what extent has a machine been developed for mining and loading coal?	December 21, 1915	WA Weldin		
Question Box: Is the purchase of electric power advisable for coal mining operations?		J.F. Jenks	West Pen Electric Co	
The bearing of the new compensation act on the coal mining industry of Pennsylvania		HB Meller		
Mining Extension work of the University of Pittsburgh				
Concentration Methods of Mining in the Lower Connellsville District	December 22, 1915	W.H. Howarth		126-132
What part should the gasoline locomotive take in mine haulage		C.G. Brehm		
Permissible Explosives, Their advantages		Joseph Williams		
Permissible Explosives, their disadvantages		Joseph Knapper		
Mine Gasses		Edwin M Chance		
The new Methane Detector		G.A. Burrell		
Welfare work and its relation to workmen's Compensation	December 23, 1915	J.H. White	Bureau of Mines	
Workmen's Compensation and Mine Safety, With reference to Cost of Coal Production		H.M. Wilson	Director American Mine Safety Association	
Question Box:	December 6, 1916			176
What will be the condition of our labor supply after the war				179
Should mine rescue and recovery work be performed by men in the employ of individual coal companies or by those in the employ of the Federal and State Governments?>				184
What is the best method of training men in the ranks to fill official position in our mines?				186
Should mine rescue and first aid work be required as a requisite for a certificate as mine foreman or fire boss?				186
Is preservative treatment of mine timbers a profitable investment?				186
What is a gaseous mine?				188
When, where and under what conditions should the danger and other signs be used in and about the mine?				191
How can a mine explode when empty of men?				192
Is a cutting and loading machine practical?		WA Weldin		196

Article Title	Date	Author	Author Info	Page nu
Permissible Explosives		F.H. Gunsolus	Manager, Technical division Du Pont Powder co. wilmington Del	196
Handling Mine Water,		L. B Smith	Mining engineer, Morrisdale Coal Co.	199
Federal Aid to the Coal Mining Industry		Director Van H Manning	US Bureau of Mines, Washington D.C	208
Reels of Real Mining Movies			US Bureau of Mines, Pittsburgh PA	214
Mine Accidents,	December 7, 1916	Nicholas Evans	State Mine Inspector, Johnstown, PA	221
History and Development of the Electric Mine Safety Lamp		J.HT. Jennings	Electrical Engineer, P&R Coal and Iron Co, Pottsville PA	229
The First Year of Workmen's Compensation		John Price Jackson	Com., Dept, of Labor and Industry, Harrisburg PA	239
General Mine Practice		E.E. Girod	State Mine Inspector, Masontown PA	251
A New Electrical Device for Detecting Gas in Coal Mines		C. M Means	Randolph-Means Co. Pittsburgh PA	253
General discussion on use of stroage battery locomotives				255
Question Box	December 5, 1917	W. E. Fohl	Leader	8
What consideration should a State Mine Inspector give to the cost of improvements recommended in the interest of safety?				8
How far should the Mine Forman in Pennsylvania be held responsible for the cost of production, considering the strict definition of his duties as found in the Mine Laws?				*
Why should the Associated Companies attach a penalty to the non-use of carbide lamps in open light mines?				13
Does private ownership of railroad cars facilitate the movement of coal?				12
What is the proper time of day for the blasting of coal; what precautions should be observed preliminary to blasting; by whom should the work be done?				20
Is the payment of bonuses to miners a satisfactory method of compensation?				24
What are the prime requisites of a satisfactory permanant stopping?				30
In pillar drawing, where are the greatest risks encountered-in high coal or in low coal? Under a strong roof or a weak roof? By splitting of ribs or by slabbing?				34
What conditions should determine weather mine cars should be retarded by breaks or by sprags?				36
A moving picture Trip thorough a modern By-Product Coke plant		C.J. Ramsburg		51

Article Title	Date	Author	Author Info	Page num
Safe and Unsafe Practices in Bituminous Mines		E. E. Bach		53
Coal Mining by Stripping	December 6, 1917	E. C Drum		62
Protecting Mine Roof with the Cement-Gun		Geo. S. Rice		78
The Application of the New Revenue Act to the Coal Industry		C. G. Lewellyn		92
Electric Storage Battery Locomotives		B. M Fast		93
Question Box	December 4, 1918	W. E Fohl,	Leader	9
What effect Will the Conclusion of Peace Negotiations Have Upon the Labor Supply In and About the Coal Mines?				9
Should the Drawing of Mine Timbers Be Penalized Under the Safety Standards in Computing Compensation Insurance Rates? If So, Under What Conditions?				15
To What Extent Can the Water-gague Chart be Used as an Index of the Ventilation Conditions in a Mine?				17
Has the Law Permitting the Employment of Non-certificated Officials in Coal Mines Been Detrimental to Their Efficient and Safe Operation?				22
What Are You Doing to Increase the Efficiency and Steady Working of your Employes? With What Success Are You Meeting?				27
Are Roller-bearing Wheels too Delicate for Mine Cars?				33
Is the Underground Use of Alternating Current More Hazardous Than the Use of Direct Current?				36
In What Ways Can the conservation of Materials and Supplies be Best Effected Both Inside and Outside the Mine?				61
Military Mining Operations On the Western Front		Capt. H. D. Trounce		47
Gas Warfare		Col G. A Burrell		56
The Elimination of Power Losses	December 5, 1918	Graham Bright		63
Underground Coal-Loading Machinery		E.N. Zern		71
The Use and Abuse of Headlights On Mine Locomotives		W. K. Mackall		106
The preservative Treatment of Mine Timbers as a Conservation Measure		Kurt C. Barth		120
Probable Future Developments in the Use of Coal	December 3, 1919	Henry Kreisinger	Fuel Engineer, Bureau of Mines, Pittsburgh PA	19-24
Question Box:				
\In a Room of More Than 20 Feet Width Should Timbers Be Uniformly Spaced Between the Track and the Gob Rib, or Should They Be Set More Closely Near the Center of the Room Than in the Gob?				25-31

Article Title	Date	Author	Author Info	Page num
What is the Reasonable Water Gague Reading for a Mine Operating Under Favorable Conditions and Circulating 100,000 Cubic Feet of Air per Minute? 200,000 Cubic Feet? 300,000 Cubic Feet?				31-33
The Constitution of Coal as Seen With a Microscope		Dr. Reinhardt Theissen,	Research Chemist, U.S. Bureau of Mines, Pittsburgh PA	34-45
The Labor Factor in Coal Mining		Charles L. Fay	Director, Safety and Efficiency Department, Davis Coal and Coke Co, Cumberland MD	46-51
Q: What Are the Advantages and Disadvantages of the Advance and Retreat Method of Drawing Pillars		Richard Maize	State Mine Inspector	51-55
Q: How Should Amusements and Recreation for Miners (White and Colored) Be Conducted in Isolated Mining Camps?	December 4, 1919			75-80
Q: Why Do Not Coal Companies Employ More College Trained Men in Their Staffs?		Dr. E.S. Moore	President	80-85
Q: Has the Steel Mine Car Made Good?		E. N Zern Presiding	President	85-88
Modern Practice in Coal Washing		Professor H. C. Ray	University of Pittsburgh	89-101
Q: Is Alternating Current More Satisfactory than Direct Current for the Operation of Coal Cutting Machinery?		E. N. Zern Presiding	President	102-105
Pillar Drawing		A.W. hesse	Chief Mining Engineer, Buckeye Coal Co. Nemaquin PA	106-120
Q: How Much Coal Shold a Coal Loading Machine, Employing Three to Five Men in It's Operation, Produce Daily to Warrant It's Use? Should a Guarantee of Performance Be Exacted Before Purchase?				120-123
Q: Under Like Conditions Which Is Superior for Attaining a Large Output, a Drift Mine or a Shaft Mine?				123-124
Q: Can Electic Bonding of Rails Be Recommended as Effective and Economical?				125
The Geology of Oil and Gas	December 8, 1920	Dr. G. H. Ashley	State Geologist	20-23
Motion Pictures of "Methods of Timber Treatment"		Kurt C Barth	Barrett Company Chicago	24
Q: To What Extent Is the Storage of Coal at the Mine Economically Justified?		Mr. Joseph Knapper, Presiding	State Mine Inspector	25-28
Q: Some Statistics Showing the Difference in Purchased Electric Power and Plant Producted Power (for a period of one year at least)				28-31
Q:What Is the Best Means of Educating the Miner and Providing to Him That His Lot Is Not So Bad After All?				31-33

Article Title	Date	Author	Author Info	Page number
Q: Are Accidents per Ton of Coal Mined Being Reduced in Proportion to the Energy and Money Expended for Safety Work?		Dr. E.S. Moore, Presiding		33-35
Q: What Is the Range of Temperature in a Coal Mine?				35-38
What Has Been Accomplished in Americanization Work in Our Pennsylvania Mining Communities During 1920?		Director E. E Bach	Americanization Bureau, Harrisburg PA	38-43
Q: The Merits and Demerits of Modern Coal Cutting Machines	December 9, 1920	Mr. John I Pratt, Presiding	State Mine Inspector	63-69
Q: What Is the Consensus of Opinion of Those Present as to the Standardization of All Coal Mining Equipment?				69-72
Report of Resolutions committee				72-73
Some Data on Mine Fans		Thomas Chester	manager, American Blower Co.	74-79
Q: Should Booster Fans be Allowed in Coal Mines		Mr. Richard Maize, JR., Presiding	State Mine Inspector	80-87
New Developments in the Microscopic Study of Coal		Dr. Reinhardt Thiessen	U.S. Bureau of Mines	88-119
Q: Is the So-called "Thick Freeport Coal" a Combination of the Upper and Lower Freeport Beds, or an Abnormal Development of the Upper?				121-127
Some Peculiar Roof Conditions in the Central Pennsylvania Field		A. E Roberts	Mine Superintendent, Ebensburg PA	128-133
Q: Different Forms of Sulphur in Coal and Why Come Are Less Objectionalbe Than Others				127
The mineral resources of Pennsylvania (illustrated throughout with lantern slides	December 7, 1921	G. H. Ashley,	State Geologist	28
The Story of Coal		J. W. Paul	U. S. Bureau of Mines, Mining engineer	29
Some Data on the Thick Freeport Coal		Jessee K. Johnston		35
Q: What are the important elements to consider when selecting a combination battery and trolly locomotive for gathering cars?		Robert Z Virgin, Presiding	Mining Instructor	36-41
Q: Give some data on the proper installation of electrical equipment underground--D.C. and A. C. Lines, A.C. Transformer Stations, M.G and Rotary Converter sets				41-44
Q: Why not some way to work low coal on the long wall face system?				44-46
Q: What has been the effect on the upper of two beds of coal due to the lower being mined first?				46-48
Safety Gates and safety appliances for cages and hoisting shafts		William G Duncan	Director of Mining Extension work, State College, Pa	49-52

Article Title	Date	Author	Author Info	Page nu
Carbon monoxide masks for coal mines	December 8, 1921	Capt G. H. Burrell	Chemical Engineer, 911 Chamber of Commerce Building, Pittsburgh Pa	74-80
Q; What is the relation of moisture content of the air to dust and gas explosions?				87-88
Q: How can bad roof conditions due to use of undercutting machines and shooting next roof be eliminated? Roof conditions under pick mining system are excellent.				83-87
The scientific selection of explosives for coal mining		N. S Greensfelder	, Explosives Engineer, Hercules Powder Co, Wilmington Delaware	89-96
Motion pictures of Car unloading machinery,			Wood equipment Co, Chicago Ill	96
Motion Pictures of Manufacture of Dynamite by hercules Powder Company				96
Explosion-proof mine locomotives		L. C. Illsley	Electical Engineer, U. S. Bureau of Mines, Pittsburgh PA	103-108
Q: What are the main factors which constitute a successful mien offical, other than knowldege of the mining law?				97-99
Q: What should not all coal mines, regardless of weather they employ one man or ten men, come under the Pennsylvania state mining law?				99-102
Q: When a section of a mine is entirely worked out and abandoned, wouldn't it be proper to seal off the section, or should it be ventilated?				109-112
Q: In a mine in which fire damp has never been detected, and which is worked entirely with naked lights, but in which only permissible explosive are used on accoutn of the dryness of the dust, should the ventilating fan be run continuously or should it be stopped on Sundays, Holidays, or Idel days (From New Zeland)				112-114
Comparative Haulage Costs - Animal and Mechanical		A.F. Strouse	Consulting engineer, Commonwealth Bld, Pittsburgh PA	115-126
Inspection of the Liberty Tunnels, Carnegie Tech Schools mining equipment and the U.S. Bureau of Mines Experiment Station, by two hundred members of the Institute	December 9, 1921			Not in bk
Rehabilitation of injured mine employees	December 13, 1922	Silas S Riddle	Chief, Bureau of Rehabilitation, Department of Labor and Industry, Harrisburg Pa	27-42
Motion Pictures, Pennsylvania Coal Stripping Operation, Anthracite - Susquehanna Collieries Co		N. S. Greensfelder	Hercules Powder Co Wilmington Delaware	47-49

Article Title	Date	Author	Author Info	Page nu
Pictures - Bituminous Stripping Operations, accompanied by descriptive talk on the same		Samuel A Taylor		49
Q: What is the most important point to be considered when entering a mine after an explosion?				51-54
Q: Give some practical remedies for the pollution of our streams by mine water				55-57
Q: What method should be applied for working coal beds 30 feet or more in thickness as found in some of our western states, where the roof is only fair and the dip less than 30 degrees?				57-60
Q: Discuss methods of electric shot firing in mines				60-64
Q: Discuss best practical methods of timber preservation				64-66
Methods of resuscitation from carbon monoxide poisoning		Dr. Yendell Henderson	Yale University	66-76
Q: What is the most efficient method for humidifying mine air?	December 14, 1922			88-93
Q: What is the solution for the overdevelopment of the bituminous coal industry?				94-99
Q: What is the most efficient timber tie to use in coal mines, hewed or sawed, and why?				99-100
Q: Are doors necessary in the ventilation of a gaseous mine?				100-102
Q: Would there be any advantages in having a national danger sign for use in all American coal mines?				102-105
Industrial dust explosions and what coal men can learn from them		David J. Price	Engineer in charge Grain Dust Explosion Investigations, Bureau of Chemistry, US Dept of Agriculture	105-118
Motion pictures of Rosedale mine and by-product plant		C. A. Richardson	Cambria Steel Co	119
Motion Pictures "Pittsburgh safety week"		George A clarkson	Western Pennsylvania Division, National Safety Council	119
Methods of Education in Coal Mining		Prof A. C. Callen	West Virginia University	120-124
Q: Why should not all coal mines in pennsylvania have rating inspections by the pennsylvania rating and inspection bureau and not permit self-insured companies to go on without these inspections?				124-127
Q: Are rotary dumps more efficient at drift and slope mines where the coal is three to four feet thick, than cross-over dumps?				127-132
Q: What is the best type of bonds in use pressed or welded, and why?>				132-135

Article Title	Date	Author	Author Info	Page nu
Q:What is the most effective method of reducing the present appalling rate of fatalities in coal mines from "falls?"				134-137
Depletion, Depreciation and other factors bearing on coal cost		Bernard T. Reis	Expert Accountant, New York City	138-148
A practical classification for the World's Coals	December 19, 1923	Dr. George H. Ashley	State Geologist, Harrisburg Pa	28-40
Motion Picture "The story of Dynamite"		S.C. Jones	DuPont Powder Co	40-41
Q: Does Dynamite exert a greater force downward or does it exert the same force equally in all directions?				41-44
Some Observations on European coal mining conditions		John T Ryan	Vice President and General Manager, Mine Safety Appliances Company, Pittsburgh Pa	46-55
Q: Which type of safety lamp is more sensitive to gas - the flat or found wick?				56-58
Q: Is the radio proving of any practical use in coal mining or for mine rescue work?				58-61
Old Brimstone corner, author of "the Challenge of Pittsburgh		Dr. Daniel L Marsh	Pastor of the Methodist Episcopal Smithfield Street Church	62
The soldier of Fortune, a Veteran of Eight Wars "From Dan to Sheba" o		Capt Irving O'Hay	New York City	62
Q: What precautions should be taken in the installation of electrically driven exhaust fan at the mine giving off methane, to prevent the gas in the return air from becoming ignited by the motor, when re-establishing ventilation after the fan has been stopped for a sufficient time to allow the mine to fill up with gas?	December 20, 1923			63-70
Q: What is the practical limit to the splitting of air currents?				70-71
Q: What changes in roof, bottom and coal are met when approaching a fault?				71-74
Mine fires and some methods for extinguishing them.		Chief Joseph J. Walsh	Department of Mines, Harrisburg of PA	74-77
New data concerning the humidification of mine air		Thomas Chester	Ventilation Engineer, american blower co, Detroit Michigan	86-95
Q: Where does the most dangerous dust lie - on floor, ribs, or timbers?				95-99
Q: Is it possible to have a mine explosion in a mine where your safety lamp gives no indication of fire damp>				99-101
Q: what are the most common causes of the ignition of gas in coal mines?				101-102
Q: How tight should posts be set in rooms and in entries?				102-103

Article Title	Date	Author	Author Info	Page number
Recent Electrical Progress in coal mining	December 3, 1924	Graham Bright	Consulting Engineer, Pittsburgh PA	26-31
Q: A rule in the electrical section of the Pennsylvania Bituminous mining law reads as follows:"For work underground when supplied by current at voltage higher than medium voltage no transformer shall have a normal capacity of less than 5K.W. nor shall a motor have a normal capacity of less than 15 H.P." Why does the law minimize the capacity of motors and transformers?				31-32
Q: Is a voltage of 500 reasonably safe for all working conditions in 3 1/2 feet of coal?				32-36
Mine Accidents and their prevention		Alexander McCanch	State Mine Inspector, Monongahela PA	37-49
Health Hazards in coal mining		Dr. R. R. Sayers	Chief Surgeon, U.S. Bureau of Mines, Washington D.C	50-63
Q: Are the sanitary conditions inside the coal mines much improved over 30 years ago? If so, what are the main reasons?			Question from British Columbia	63-64
Q: Are the sanitary conditions in coal mining towns greatly improved over 30 years ago? In what respects?				63-64
Q: Give six principal methods for improving the ventilation in an old coal mine				64-65
Underground belt transportation of coal	December 4, 1924	Thomas C Dawson	Chief engineer, H. C. Frick Coke Co, Scottdale PA	73-93
Q: Is underground mechanical loading a success				94-102
Q: If a shot firer has two or three holes to fire in the Pittsburgh draw-slate, isn't it safer to allow these to be fired simultaneously, rather than one at a time?				133-135
Discussion of Frick Installation		M. A. Kendall	Chief Engineer, Stephens-Adamson Mfg. Co	88-90
Modern Rock dusting in coal mines		Edward Steidle	Carnegie Tech	108-122
Some Facts and figures on rock dusting				122-123
Q: Is high-grade limestone the best material for rock dusting in coal mines				123-129
Some facts concerning rock dusting		George S. Rice	Washington D.C	129-133
Q: What is the most effective means to minimize the present appalling rate of fatalities due to falls of top?				133
Q: Percentage of methane allowable in return air.				133

Article Title	Date	Author	Author Info	Page nu
Coal loading machinery, it's actual accomplishments to date	December 9, 1925	Walter M Dake	Consulting Engineer, Franklin, PA, Joy Machine Co	22-27
Same subject as above		Charles C. Whaley	Myers-Whaley Co Knoxville Tenn	28-33
Same subject as above		A. R Anderson	Jeffrey Mfg Co, Columbus OH	34-38
Motion Picutre - the making of wire rope		John A roeblings Sons' co	Newark N.J, courtesy of Frick & Lindsay Co.	38
Q: What new work has been done in recent years to prevent or reduce mine accidents?				40-48
Q: With coal lands at the maximum price per acre (in the coke region) is it economical to leave a water barrier of 100 feet of coal adjacent to a worked-out mine which lies at a higher elevation?				48-52
Coal Loading machinery, it's actual accomplishments to date		E.H. Johnson	Consulting Engineer, Columbus Ohio, Coloder Co	52-54
Q: Do prize competitions in first aid work, as now conducted defeat the purp[ose intended, by laying too much stress on the development of crack teams rather than general training for the mass of employees?				54-56
Recovery of the Big Vein Pillars in the Georges creek region	December 10, 1925	Dr. J. J. Rutledge,	Chief Mining Engineer, Maryland Bureau of Mines, Baltimore MD	68-76
Report of committee on coal classification		Rush N Hosler		80-81
Q: Is the arcing of electricity between steel rails and steel ties likely to cause mine fire?				56-89
Q: What items should be entered on a Coal Company's cost sheet? What constitutes what is known as strictly operating cost?				89-91
Q: Discuss ventilation in single entry work, what is the best method, especially where new methods of mining are being tried out?				91-93
Modern practice in underground sub-stations		C.H. Matthews	Mining Engineer, East Pittsburgh PA, Westinghouse Electric and Manufacturing Co	82-86
Our mine timber supply in Pennsylvania, also in other coal producing states,		Prof H. S. Newins	Dept of Wood Utilization State College PA	95-106
What some coal Companies are doing to replenish the mine timber supply		Newell G Alford	Consulting engineer, Pittsburgh PA	108-116
Q: What is the best practice for the blasting of coal for mechanical Loaders? Do they have any decided effect on lump coal?				116-129
Q: Is scientific management applicable to the caol mining industry and is there anything the coal mining industry should learn from manufacturers?				129-133

Article Title	Date	Author	Author Info	Page nu
Q: Is it safe practice to use open lights in so-called non-gassy coal mines?				133-136
The Rheolaveur process for the preparation of coal	December 8, 1926	J. R. Campbell,	American Rheolaveur Corp, Scottdale, PA	30
The preparation of coal		Dever C Ashmead	Wilds-Barre, PA, Hydrotator Co, NYC	40
Preparation of Bituminous Coals		Andrew Allen	Allen & Garcia Co, Chicago Ill	45
A New dry cleaning plant		Ray W Arms	Roberts & Schaefer Co Chicago, Ill	49
the Mt. Union Sand Flotation Plant		Thomas M Chance	Philadelphia PA	51
Q: What is the best system for getting coal mined cleanly in your district?				60
Q: In the preparation of caol which sizes would be liable to contain the most impurities?				61
Q: What effect will coal loading machines have upon the preparation of coal?				63
Spontaneous combustion and underground fires in coal mines - causes and methods of dealing with the same	December 9, 1926	William Carson, F. Carson	Supt, New Zealand Coal and Oil Co, Kaitangata New Zealand (read by WR. Chedsey, State college PA	75
Safety Kinks in Coal mining		J. J. V. Forbes	U.S Bureau of Mines	89
Q: What regulations or practices will minimize accidents from falls of roof and sides in coal mines?				97
Q: Give some concrete instances wherein rock-dusting in coal mines has prevented wide-spread explosions?				103
what can be done to prevent fires in outside gob-piles at coal mines?				105
Motion Pictures "The story of premissible Explosives, the story of Detonators?				
Concentrated Systems in coal mining		N.D. Levin,	Chief Engineer, Jeffrey Mfg co. Columbus Ohio	108
Q: what effect would concentrated mining methods have on the liability of accidents?				120
Q: Does the law requiring the tamping of a hole from the explosive charge to the collar of the hole minimize the possibility of a blow-out shot, or would it be safer to require a fized number of inches of tamped hole per pound of explosive?				124
Q: What would the most effective way to enlist the cooperation of the workman in the prevention of accidents?				128

Article Title	Date	Author	Author Info	Page nu
The practical underground education of the coal miner	December 7, 1927	George W. Grove	U.S. Bureau of Mines, Pittsburgh PA	27-37
Motion pictures showing the WV Mine Safety rally at Morgantown WV, September 1927		Robert M Lambie,	Chief Mien inspector, Chalreston W.VA	37
Flame Safety Lamps		John F Bell	State mine inspector, Dravonsburg, PA	47-68
Q: What can be done to standardized in principle our present coal mining methods with modern loading machinery?				37
Q: Should rescue appratus at the mine be used for training and indefinite number of men or kept for the exclusive use of the premanent rescue team at the mine?				68-70
Q: Do bore-holes drilled in advance of the working faces increase the safety of the miners, or merely create a false sense of security?				70-74
Q: to what extent is it necessary to prohibit the use of black-powder in Bituminous Coal mines?				75-78
Explosion tested reel locomotives	December 8, 1927	W.D. Turnbull	Westinghouse Electric & Mfg co, East Pittsburgh PA	81-87
Some data on mining patents		Frank Cartlidge	Cincinnati OH	87-93
Q: Does it pay to Rock-dust in non-gaseous mines?				98-96
Q: Is an arc-wall cutting machine as safe for cutting top as other machines are for cutting middle and bottom in gaseous mines?				96-98
Q: Should first-aid and accident prevention be taught in our purblic shchools and credits granted for the same?				98-101
Q: Is rock-dust a practical agent for extinguising mine fires?				101-103
Some data on subsidence and underground earth movements incident to coal mining operations		C.R. Claghorn	Consulting engr, Baltimore MD	103-116
Q: At yoru mines do the engineers keep in close touch and co-operate at all times with local mine officals?				116-118
Q: would it be advisable to employ three eight hour shifts in coal mines?				118-121
Q: Which is the best lubricant for mine car wheels and machinery, oil or grease?				121-124
Q: What are th4e advantages and disadvantages (if any) of driving rooms on the butts both for advance and retureat?				124-127
Inspection trip to the largest Pickle Mine in the world, H.J. Heinz Plant, Pittsburgh PA				127
The chamption coal-cleaning plant of the Pittsburgh coal co	December 12, 1928	James Bain Morrow	Research Engineer, Pittsburgh PA	37

Article Title	Date	Author	Author Info	Page nu
The national competition to assist in the reduction of Mine and quarry accidents		W.W. Adams	Statistician, U.S. Bureau of Mines, Washington DC	37-41
A resume of the Bituminous minin colde of Pennsylvania		Walter H lasgow	Secretary of Mines, Harrisburg PA	42-49
Q: What precautions should be taken with the use of Auxiliary Blower fans? How shold the mining laws be amended to regulat their use?				50-53
Q: Should a shot-firer be accepted as a mine offical?				53-55
Q: should premissible explosives be used exclusively in Bituminous coal mines?				55-58
Q: With increase in capacity and with the same mine regulations, governmental and internal is there an increase in the accident hazard?				58-59
The Stabilization of the coal industry and data on mechanical loading in undergournd workings(Mr. Johnston presents a solution for overproduction in the caol industry. It will not mean a reduction in wages, nor a reduction in working hours, and will also take care of the surplus workers inside and outside the coal mines				60-73
Motion pictures showing mechanical loading in underground workings		John L Clarkson	President Illinois power shovel, nashville Ill	73-74
The outlook for coal This talk will give us a glance into the future and we can all vouch for it, that Dr. Ashley is a very reliable prophet		Gorge H Ashley	State Geologist	74-81
The spontaneous combustion of storage coal	December 13, 1928	Professor A.J. Hoskin	Lafayette Ind	81-87
Mine Fires, Including Spontaneous Combustion in Gob Sections,		Richard Maize	State Mine Inspector, Uniontown PA	87-101
Q: What constitutes a good mine superintendent?				101-103
Q: What should be the duties of an assistant mine forman or section boss?				103-104
Q: What is the best method of rock dusting entries in which there is not rack?				105-106
Some modern mine rescue data		George S. McCaa	US Bureau of Mines	106-108
Q: What is the best method to be employed in introducing "self-rescuers" into our coal mines?				108-112
Q: Discuss the relation between the all-service Gas mask and the 2-hour breating apparatus. When where and under what conditions are the two distinct types to be used?				112-115
Q: Is it practical to place Barricade material in all sections of the mine, and if so, what material is necessary?				115-117

Article Title	Date	Author	Author Info	Page nu
the use of the altimeter in modern mine ventilation practice		Chief Engineer Archibald Saxe	Ellsworth Collieries, Ellsworth PA	117-121
Are all coal mine explosions preventable	December 11, 1929			39
What are the determing factors in deciding when to unseal a coal mine fire?				41
What fundamental knowledge should a mine forman or superintendent have concerning mine fire control?				45
Under what coal mining conditions should a trained underground fire brigade be maintained?				46
What is being done with roof jacks? Wher are they used and how?				47
how far should a mine car be from the loading face to allow for miner safety?				50
How long shoula composite steel mine car last in or out of service?				52
Are steel mine props being generally used? Are they both advantageous and desirable?				54
do any conditions arise in coal mining, especially in the antracite region, where from a safety standpoint the use of Squibs, or cap fuse, is preferable to detonators?				59
What is the proper position for the detonator in a charge of explosives?				61
Does our present-day practice of mechanical minign with face and room conveyors tend to increase accidents?				62
New Mineral industries building the Pennsylvania State college		Edward Steidle	State college, PA	67
Inspection trip		Ralph C Beerbower	Pittsburgh PA	69
Summer Meeting		H. D. Mason Jr	Ebensburg PA	70
Presidential Address		William Nisbet	Greenburg PA	71
Safety Practice in the Operation of coal cutting machines		Clyde A McDowell	Pittsburgh PA	73
The Safe handling of explosives		Paul F Lewis	Wilkinsburg PA	78
Some Freak shots in coal mining		Oscar Cartlidge	Charleston WV	89
Some data on modern mechanical mining		E. J. Weimer	Wildwood , PA	95
Use and misuse of gas masks		John V Berry	Johnstown PA	98
Dustless Coal		William MacGillivery	Midland Mich	101
The lost coal of Pennsylvania		George Ashley	Harrisburg PA	104
the By-product Coake industry and it's future		Erskine Ramsay	Birmingham Ala	106
Causes and remedies for Gob fires on the surface		Oscar Cartlidge	Charleston WV	119
Mining Conditions in Spitzbergen		Joakim N, K Lindholm	Oslo Norway	121

Article Title	Date	Author	Author Info	Page number
Safety in Bituminous Mines		Walter H Glasgow	Harrisburg PA	125
Joseph A Holes Safety Association Award of Hero Medals	December 11, 1930			15
Do regular Safety meetings of employes help reduce accidents?				29
Can safety be advanced by increased mechanization of mining				30
safety in mining		John T Ryan		18
Placing responsibility for accidents		Silas S Hall		23
Economic Losses in the Pennsylvania mining industry resulting from infury		Rush N Hosler		35
How ventilation has been improved at the Penelec number five mine		Denis L Boyle		42
Practical Mine Ventilation		George Steinheiser		53
Inspection trip = Pittsburgh Experiment station			US bureau of Mines	59
What are the advantages of protective hats?	December 16, 1931			67
What are the advantages of protective shoes?				67
What are the advantages of goggles?				67
Is systematic timbering essential for safety regardless of roof conditions?				95
Is the recovery of timbers necessary for good mining practice?				95
How can timber be recovered safely?				95
What is the value of community safety activities?				109
Safe operating practices in bituminous coal mines		G.S. McCaa		60
Some moder mining problems		N.G. Alford		63
Haulage accidents and how they may be avoided		F.E. Bedale		77
Geology of the central Pennsylvania Bituminous coal field		Dr. G.H Ashley		87
the use of caving chambers in the control of roof		Alexander Jack		102
The value of co-ordination in concntrated mining		N. A. Emslie		105
Steel Roof supports for mines	December 15, 1932	R Dawson Hall		16
Some relations of Illumination to accidents		C W. Owings		22
Brief on Merit rating of coal mine risks in Pennsylvania for compensation insurance rates		Rush N. Hosler		37
Protective Wearing Apparel		C.L. Lutton		47
Methane Found in air currents under operating conditions		Geo S. McCaa		53
Contributing factors which have resulted in reduction of accidents during the past three years in pennsylvania bituminous mines		Richard Maize		60
Factors and conditions which influence falls of roof		James W. Paul		74
Q: Is rock dusting being maintained under present operating conditions?				79
Q: How does supervision prevent accidents?				83
What new safety ideas are preventing accidents?				92

Article Title	Date	Author	Author Info	Page number
Impounding acid mine water in mines to reduce acidity	December 6, 1933	H. M. VanZant		111
Acidity of drainage from Bituminous coal mines of Pennsylvania		Glenn V. Brown PhD		123
Some Methods of reducing blasting accidents		S.P. Howell		125
Creation and Operation of a mine safety organization		T. W. Lightfoot		135
Measure for reducing haulage accidents		F.W. Howarth		138
Results of complete first aid training at certain mines		J.J. Forbes		146
Needed Legislation for the bituminous coal mines of Pennsylvania		Richard Maize		155
Q: What is the relation of discipline to underground safety?				170
Q: Advantages and disadvantages of incombustible compared with combustible stoppings				174
Q: Should mine posts be set without cap pieces, and what is an adequate cap piece?				177
Efficient and economical mine ventilation	December 5, 1934	S. J. Craighead		184
The bureau of mines and the coal industry		J.W. Finch		204
The relation of the coal industry to the Bureau of Mines, from the standpoint of the following:				
The mine workers		P.T. Fagan		207
The operators		W.L. Affelder		214
The Manufacturers		R.C. Beerbower		215
The State Departments		W.H. Glassgow		219
Safety in the Industry		J.V. Beery		225
Education		W.R. Chedsey		232
The use of Conveyors in headings and rooms		Richard T. Todhunter		233
Breaking down coal with compressed air		C A Herbert		237
The coal industry and the Government's Hydro-electric plants		E.A. Holbrook		242
Safety in a Mechanized Mine		G.N. McLellan		248
Q: What are the uses and limitations of underground conveyors?				257
Q: How can we get more co-operation in promoting safety?				263
Ventilation characteristics of mines and fnas	December 12, 1935	A.L. Lee		13
Twenty-five years progress in coal mining:				
Transportation		W.R. Chedsey		43
Ventilation		G.J. Steinheiser		48
Inspection		Richard Maize		53
Explosives		S.P. Howell		58

Article Title	Date	Author	Author Info	Page nu
Safety		C.F. Keek		66
Personal Recollections		J.J. Rutledge		69
The Value of better underground illumination		Graham Bright		80
Requisites for conveyor loading		George E. Bayles		89
Face Supervision and supervision relative to roof control		J.V. McKenna		93
New aspects of detecting gas with flame safety lamps		L.C. Hsley		99
Q: Are accidents in mines being reduced?				105
Q: How can the mining industry aid in reducing stream pollution?				110
Pressure treated timber uses in coal mine operations	December 10, 1936	A. R. Joyce		120
Studies of roof movement in the Pittsburgh district conducted by the US Bureau of Mines		E.R. Maize		123
Some aspects of settlement and control of strata over mined areas		Helmut Lansberg		132
Factors which have been beneficial in preventing major mine disasters		P.F. Nairn		139
Fifty Years of progress in mechanization of mines		Carel Robinson		143
The Mine Official as a Teacher		E.A. Holbrook		152
Q: How should the condition of Mine air be determined and what should constitute a gassy mine?				155
Q: How can we educate men and officials to properly test and protect themselves before entering a depleted or toxic atmosphere?				162
Q: Has safety increased with Mechanization of mines?				170
Guarding the bits of coal cutting machines	December 9, 1937	L.C Hlsley		1
Principals of safety with special reference to bituminous coal mining		R.N. Hosler		4
Review of new amendments to the Pennsylvania bituminous mining laws				
by an operator		W.L Affelder		8
by a state mine inspector		P.J. Collaghan		29
Coal mine explosives, their characteristics, selection and use		J.E. Tiffany		35
Methods of combatting coal dust in Bituminous mines		C.H. Dodge		56
Standby equipment in mechanized mining		J. W. Woomer		60
New Developments in coal and rock loading equipment for thin seams		T.F. McCarthy		69
Q: Do present regulations unduly favor the flame safety lamp?				
Mine water neutralization, costs, sealing, and effects of Pennsylvania stream pollution Act	December 8, 1938	R.D. Leitch		1
Transportation Accidents and methods of prevention		R.J. Craig		9
Electrical hazards and means of elimination		John F Conrad		14

Article Title	Date	Author	Author Info	Page nu
Special safety features including ventilation in connection with mechanized mining		W.P. Vance		26
The importance of supervision in promoting safety and efficiency in mining		P.J. Callaghan		34
Advantages of New-type fans		A. Lee Barrett		39
Q: What are the hazards and accident experience from the use of pellet powder?				44
Q: What are the most efficient methods of rock-dusting back entries?				60
Q: What are efficient methods of recovering timbers including timbering in mechanized mining?				70
Q: Has training of mine-rescue teams and personnel for recovery work after fires and explosions been consistent with the advance in the mining industry?				81
What the miner can and should do to obtain maximum cooperation of mine officials in the promotion of safety	December 14, 1939	Geo Cunliffe, Mike Pasternick		54
Methods which can be used by state mine inspector to assist in the promotion of safety		G.J. Steinheiser		59
Q: What records should be maintained by mining companies for use in safety work?				69
Q: What are the problems involved in the maintenance, training of personnel and general safety practices in the operation of mechanical mining equipment?				84
Q: Will increased supervision assist in accident prevention?				98
Pennsylvania Bituminous coal region mine mapping and its value to the industry	December 12, 1940	Arthur Neale		1
Methods of obtaining employee interest in safety work		Ira P. Bradley		9
Training personnel for Mechanical Mining in Pennsylvania		D.C. Jones		17
Training personnel for Mechanical Mining in West Virginia		G.R. Spindler		28
Motion study in mechanized mining		H.B. Maynard		33
Modern methods for controlling the dust hazard in mechanical mining		C.W. Owings		37
Hazards encountered in Pennsylvania bituminous coal mines due to gas and oil wells		J.V. McKenna		52
Pictures and their relation to accident prevention		R.J. Nicholas		54
Hazards and precautionary measures in connection with abandoned shafts and other mine openings		W.P. Powers		62

Article Title	Date	Author	Author Info	Page number
Q: What activities other than those pertaining to mine inspections and enforcement of laws should a state mining department and its inspectors conduct and actively support to promote the health and safety of persons employed in and about mines?				67
Q: What safety rules should be set up for shot firers in mechanically operated mines?				76
Q: What are the best methods to maintain interest in mine rescue training				90
The relationship of the bureau of mines to the coal mining industry		R.R. Sayers		103
Effect of moisture and temperature on mine roof	December 11, 1941	H.P. Greenwald		1
The federal coal mine inspection set-up		D. Harrington		1
Comments on the coal mine inspector		Thomas Moses		18
Quiz programs at safety meetings		W.W. Dartnell		21
Safety problems in connection with the operation of rubber-tired shuttle cars		Jerome C. White, G.A. Shoemaker		28
Allaying coal dust at island creek coal company mines		J.A. Saxe		40
Q: What are the hazards in connection with drilling and charging a number of holes with explosives before the coal is undercut or before the first shot is fired?				48
Q: When should a coal mine be classed as gassy				61
The Bureau of mines and national defense		Dr. R.R. Sayers		74
Air cooling to control mine roof	December 10, 1942	D.F. Welsh		1
Methods of mine inspections		E.H. Denny		7
Methods of mine inspections by state mine inspectors		Olen S.E. Conrad		14
Methods of mine inspections		C.E. Berner		22
How can scrap material be salvaged?		H.H. Eggleston		32
Administration and operation of the federal explosives act		R.D. Leitch		38
Absenteeism--can it be cured?		Edwin C. Curtis, R.E. Charlier		50
What are the requirements for the safe transportation of mine workers to and from their working places		John Prevost		63
The national safety council plan for the conservation of manpower in the coal mining industry	December 9, 1943	Thomas Moses		1
Coal as related to the liquid fuels industry		A.W. Gauger		6
The selection of a state program for training and utilization of rescue apparatus		Jesse Redyard		14

Article Title	Date	Author	Author Info	Page nu
State program for training and utilization of mine rescue apparatus		Marcus Kerr		19
Future of mechanization in coal mining		J.D.A. Morrow		22
What causes are responsible for the reduction in the daily production		G.A Shoemaker, and Henry Rose		25
What causes are responsible for the reduction in daily production		J.L Hamilton		29
Safe and efficient shuttle car operation for high coal		E.F. Miller		33
Safe and efficient shuttle car operation for low coal		Samuel Law		43
Industrial engineering's place itne coal mining		J.W. Woomer		54
Practical labor management cooperation		R.E. Charlier		57
Non-fuel uses of bituminous coal	December 7, 1944	Corliss R. Kinney		1
Means of preventing mine fires, electrical installations		John. F. Conrad		11
Electrical protection of mine circuits for the prevention of fires		E.J. Gleim		16
Electrical maintenance as a means of preventing mine fires		a. Lee Barrett		19
Mine fires: Necessary equipment materials and the proper maintenance and procedure for using same		George H. Sambrook		27
Procedure to follow in case of mine fires and recovery work after mine explosions		J.V. Berry		33
Trends in the coal industry		C.E. Lawall		38
Ventilation techniques contributing to safety and efficiency in mechanized coal mines		Stephen Krickovic		45
Ventilation and escapeways by means of bore holes		J.V. Mckenna		58
The advantages and disadvantages of ventilating a mine with more than one fan in the event of a mine fire or explosion		Andrew Wilson, Samuel Cortis		63
Efficient main line haulage systems		James Hyslop, J. M. Provost		71
Is Mechanized loading safety than hand loading?				84
Report of chairman of committee for prevention of mine fires of electrical origin	December 6, 1945	A. Lee Barrett		7
Preparation of haulage roads		R.H. Nicholas		4
Installation of trolly wires and feeders		C.R. Drum		8
Tentative Recommendations of the setionalization sub-committee		S. M cAssidy		19
Report of sub-committee on automatic protective systems		A. Lee Barrett		24
Means of eliminating mine fires originating from trolly systems		C.R. Nailler		28
Prevention of mine fires from electrical origin, fire fighting and recovery		J.V. McKenna		41
The coal industry in post-war germany		C.A. Reed		45

Article Title	Date	Author	Author Info	Page number
the organization of a mine inspection district to function in case of mine disaster		Dennis J. Keenan		49
Different phases of underground communication		Paul N. Bossart		57
Some recent developments and research in underground communication		E. J. Gleim		63
Field experience and application in mines of modern communication systems		A.B. Cunningham		68
Different phases of underground communications		F.E. Griffith		73
The mechanical timbering trucks		F.R. Zachar		78
Research in the bituminous coal industry	December 5, 1946	Henry F. Hebley		1
The work of the mining standardization correlating committee of the american standards association		H. MN. Lawrence		5
Quiz-O-Gram - Quizmaster		R.H. Nicholas		19
Changing economics in coal mining		Paul Weir		35
Mechanical mining in thin seams		J.J. Snure		48
Coal mining with cutting and loading machines		W.S. Malcolm		56
The development of future miners through high school training programs		D.C. Jones		58
Test of permissible explosives in experimental coal mine		Irving Hartman, J.P. Greenwald		68
How to maintain satisfactory industrial relations	December 11, 1947	James Reilly		1
Development of proper work habits		Carl A Peterson		3
Description of safety features		J.A Boyle		14
Problems facing the Bureau of Mines and the coal industry		James Boyd		37
Modern methods of roof support - main line haulage hitch drill timbering method at wild wood mine		Chalres Zotter		45
Timbering main line haulage roads		W.D. Northover		53
Use of timbers to protect the working face for roof support of haulage roads		J.E. Elkin		57
Modern methods of roof support - face areas, timbering face areas		Anthony Shacikoski		65
Timbering face areas		W. Dan Walker, Jr		67
Timbering face areas in central Pennsylvania		W. Roy Cunningham		71
Discussion of recent changes in Pennsylvania mining laws				75
Labor relations in coal mines	December 9, 1948	Charles O'Neill	President, the Central Pennsylvania coal producers association, Altoona, PA	1

Article Title	Date	Author	Author Info	Page nu
Continuous mining - it's effect upon operations		T.G. Ferguson	Division superintendent, Pittsburgh coal Company, Renton, PA	13
Four foot shafts core-drilled for Ventilation and escapement		Paul T. Porter,	Chief engineer, the Lorain coal & Dock company Blaine Ohio	20
Vocational Education for the mining industry as visualized by mineral industries extension services		D.C. Jones	Director mineral industries extension services, the Pennsylvania State College, State College, PA	37
Vocation-technical mining problems		J.W Hunt	Supervisor of mining extension mineral industries extension services, The Pennsylvania state college	41
Vocational training for th eelectrical maintenance man		Harold davis	Assistant supervisor of mining extension	46
Training programs for the Mien supervisors		R.B Hewes	In charge of supervisory training	51
Training programs at high schools and mines		James D. Reilly	Vice President Hanna coal company, St. Clairsville, OH	55
Training for safety		R. W. Beamer	Training supervisor, Rochester & Pittsburgh coal company, Indiana PA	57
How can the industry arouse interest in mining education>?		G.R. Spindler	Director, School of mines, WVU,	62
Educational programs in mining communities		E.A Holbrook,	Dean, school s of engineering and mines, University of Pittsburgh	65
What industry can do for safety		E.R. Maize	Safety director, National coal association, Washington DC	66
Safety program of the United Mine workers of America		C.F. Davis,	Director of safety, UMWA, Washington DC	69
My observations on Post-war safety conditions in coal mines of Japan		R.G Warncke,	Mining engineer, US bureau of Mines, Washington DC	72
The state of the industry		Harry M Moses	President H.C. Frick Coke Company	32
Bituminous coal research	December 15, 1949	Harold J. Rose	VP and director of research, Bituminous coal research, Inc. Pittsburgh PA	1
Suspension type roof support		Edward Thomas,	Mining engineer-in charge, Roof control section, US bureau of Mines, College Park, MD	14
Suspension type roof support		C. C Conway	Chief engineer, the Consolidated coal co. St. Louis, Mo	25

Article Title	Date	Author	Author Info	Page number
Expierience with continous miner		J.J. Snure	Production manager, Rochester& Pittsburgh Coal Co, Indiana, PA	38
Expierience with the Colmol		C.H. Snyder,	President, Sunnyhill Coal Mining Co. Pittsburgh PA	48
Ventilation and other safety problems in connection with continuous mining equipment		R.T. Artz	Mining Engineer, Health & Safety Division, US Bureau of Mines, Pittsburgh, PA	56
Electric Heating devices for the coal mining industry		F.f. Dickmann	Senior industrial engineer, West Penn Power, Co, Pittsburgh PA	61
Current Economic situation of the coal industry		G.A. Lamb	Manager of Business surveys, Pittsburgh Consolidation Coal Co. Pittsburgh, PA	82
The safety program of an anthracite producting company		JD Cooner	Safety Engineer, The Hudson coal company, Scranton PA	83
Some Economic Aspects of the Bituminous Coal Industry		Charles E. Lawall	Assistant Vice President, Chesapeake and Ohio Railway Co, Huntington WV	29
Supervisory training	December 14, 1950	G.M. Thursby	Vice President, H.C. Frick Coke Co, Pittsburgh Pa	23
Color Dynamics in industry		J.C. Thompson	Jr. Asst, General Paint Manager, Pittsburgh Plate Glass Co, Pittsburgh Pa	29
Coal Cleaning		James Hyslop, J. M. Provost	President, Hanna Coal Co, Division of Pittsburgh Consolidation Coal Co, St.Clairsville Ohio	39
A description of coal preparation plants		F.P. Calhoun	Asst Production Manager, Rochester & Pittsburgh Coal Co, Indiana Pa	49
Controlling dust in drilling operations for roof bolts		C.W. Owings	Mining Engineer, U.S. Bureau of Mines, College Park Md	62
Continuous mining - it's effect upon operations		M.H. Forester	VP, Pittsburgh Consolidation Coal Co, Pittsburgh Pa	76
Current Experience with the Konnerth Mining Machine		E.C. Anderson	Electrical Engineer, H.C. Frick Coke Co, Uniontown Pa	87
Current Experience with continuous miner		E.R. Cooper	Manager of Mines, Jone & Laughlin steel corp, California PA	98

Article Title	Date	Author	Author Info	Page nu
Operating continuous miners in the Pittsburgh No.8 seam in Ohio,		M.A. Williams	General Superintendent, Oglebay Norton & Co, St.Clairsville, Ohio	103
Current Experience with Continuous Mining		Jerry Stump	Maintenance Supervisor Kent 1 & 2 Mine, Rochester & Pittsburgh Coal Co, Indiana Pa	108
The operation of the colmol at Weirton mine		C.W. Thompson	Manager, National Mines Corp, Weirton, Wva	116
Power for continuous miners		W.A. MacCalla	Industrial Power Engineer, West Penn Power Co, Pittsburgh Pa	126
Value of First Aid and mine rescue contests in accident prevention work	December 15, 1951	Mutiple		25
Underground Diesel Locomotives, testing and Experience		MA Elliot, J.H. East	US Bureau of Mines	40
Correct application of multiple fans to coal mines		Raymond Mancha	VP, Ventilation, Joy manufacturing company, Pittsburgh Pa	78
Labor contracts in the coal industry		Harry M. Moses	President, Bituminous coal operations association, Washington DC	82
Firefighting equipment and facilities at the Indianola mine of the Republic Steel Corp		G.D Wyant, Superintendent, Indianola Mine, Republic Steel Corp, Indianola Pa		99
Practical ways of preventing accidents in haulage		W.J. Schuster	Safety Director, Hanna coal co, St. Clairsville, Ohio	106
Market prospects for coal in the fugure		J. Pursglove, Jr	Vice President, research and development Pittsburgh consolidation coal co, Pittsburgh PA	112
Advantages and problems of Bolting		Mutiple		114
West Virginia State Wide Expierence		Arch J. Alexander	Chief, Department of Mines, State of WV, Charelston, WV	141
Hazards of roof Bolting		James Westfield	Chief, Accident prevention Health Division, Region VIII, US Vureau of Mines, Pittsburgh PA	144
Mopdified longwall mining with the Loebbe coal planer (plow)	December 11, 1952	Wilbur A haley	Mining engineer, Bituminous coal mining section, US Bureau of Mines, Pittsburgh PA	23

Article Title	Date	Author	Author Info	Page nu
Arches for main haulage timbering		W.W. Dartnell	Superintendent, Gibson Mine, Hillman Coal & Coke Co, Bentleyville, PA	38
Roof coating materials for underground mines and precautions to follow in applying them safety		Mutiple		49
Coal, Competition and congress		Tom Pickett	Executive VP, National Coal Association, Washington DC	70
Economics of roof bolting of hard rock roof		D.C. Ridenour	Chief Engineers, Olga Coal Company, Coalwood, WV	78
History of roof bolting in the Bituminous coal mines of Pennsylvania		George J Steinheiser	Mine Inspector, Bituminous division , PA Department of Mines, Uniontown, PA	82
Protective coating of mine roofs and ribs to prevent deterioration	December 10, 1953	J.A. Blackburn	Inspector 2nd bituminous district, Pennsylvania department of Mines, Kittanning PA	23
Extent of roof bolting Justified by safety and economy		Mutiple		29
Ways and means of preventing accidents caused by falls of roof at face by use of conventional timbering, high and low coal			PA department of mines	45
Trends in the field of coal utilization by electric utilities		T.E. Purcell,	General Superintendent, Power stations department, Duquesne Light Co, Pittsburgh PA	59
Prevention of Coal-mine shaft-sinking disasters		W. Dan Walker Jr	Chief Pittsburgh Brance accident prevention and helth division	74
Future of coal in the Tri-state area		Dennis McElroy	VP Pittsburgh Consolidation coal Co, Pittsburgh PA	88
University-industry co-operative program on a college level		G.R. Fitterer	Dean, schools of Engineering and Mines, University of Pittsburgh	96
What jobs can the young graduate engineer seek in the Mining industry?		W.N. Poundstone	Production Engineer, Christopher coal Co, Pursglove WV	102
What is the scholarship situation today?		M.D. Cooper	director Mining Engineering education national Coal Association, Pittsburgh Pa	109
Possible Mine concentration with continuous miners and imporve transportation equipemtn		G.W. Stump	Asst. Production manager, Rochester & Pittsburgh Coal, Co, Indiana Pa	115
Use of continuous miners in Pillaring		J.H. Truax	Superintendent, Harwack Mine, Dequesne Light Co, Harwick, PA	120

Article Title	Date	Author	Author Info	Page nu
Continuous Coal Mining				125
coal mining problems created by underground gas storage	December 9, 1954	J.W. Woomer	Consulting Mining Engineer, JW. Woomer & Associates, Wheeling WV and Pittsburgh PA	27
Experience in the application of the marietta-type continuous miner		Cleon Fowler	Superintendent, Osage Mine, Christopher coal co, Pursglove, WV	34
Announcement of campaign to Prevent roof-fall accidents		Earl R Maize	Mining methods research engineer, US Bureau of Mines Pittsburgh Pa	53
Physical conditions and their effect in planer mining		Stephen Krickovic,	chief engieneer, Eastern Gas and Fuel associattes, Pittsburgh Pa	54
Konnerth Mining Machine		R.C. Beerbower R.	Superintendent, Karen Mine, US Steel Corp, Brownsville PA	75
The coal industry obsolete or dynamic and expanding		Joseph E. Moody,	President, southern Coal Producers association, Washington DC	90
Pennsylvania's campaign to prevent roof fall accidents in coal mines		Andrew Wilson, Samuel Cortis	Dreictor roof fall accident prevention program Pennsylvania department of Mines, anthracite division, harrisburgh Pa	100
Roof bolting in Pillar recovery operations		M.F. Florjancic	Mine forman, Matheis Mine, Mathies coal co, Finleyville Pa	109
Roof bolting in Pillar recovery operations		w.G. Cooper	Coal-mine safety inspector, US Bureau of mines, Pittsburgh PA	113
Accident prevention training course, pittsburgh coal co, and Mathies Coal co		J.S. Whittaker	General superintendent, Pittsburgh coal co, Library Pa	118
Coal and ignitions in cleaning plants wher the coal is dried by artifical heat		Hylton R. Brown	Engineer, Heath and safety division US bureau of Mines, College Park Md	122
Coal dust ignitions in cleaning plants wher the caol is dried by artifical heat		Charles H Curry	Bituminous mine inspector, PA dept of Mines, New Kensington Pa	126
Demonstrated lecture on the "magic of Fire"		william Eathorne,	jheather and safety engineer, US BOM, Pittsburgh PA	135
The Norfolk and western's experimental coal burning steam turbine electric locomotive	December 15, 1955	H.L Scott Jr.	Mechanical Inspector, motive power dept, Norfolk and Western Railway Co, Roanoke, Va	24

Article Title	Date	Author	Author Info	Page number
Cleanup of excessive loose coal and coal dust in mechanized mining		James Westfield	Assisting director, Health and Safety, BOM, US Department of the Interior, Washington DC	35
The safety ground sentinel as a substitute for the Third conductor in trailing cables		B.H. Van Vactor	Chief Engineer, National Mine Service Company, Beckley WV	42
Improvements in underground illumination		Robert R Goddard	Electrical Engineer, Frick District, Central operation, Coal US Steel Corp Uniontown PA	49
Safety and operating advantages of improved illumination underground		J.A Boyle	Chief mine inspector, Frick District, Coal operating division, US Steel corp, Uniontown, PA	57
Shuttle car accidents, High coal		C. William Parisi	Director of safety, Pittsburgh Coal co, Library, PA	62
shuttle car accidents, Low coal		J. Earl Lamont	Safety Director, Sterling coal Co, Bakertown Pa	66
Can the coal industry be the architect of it's destiny?		W.W. Bayfield	Executive Vice President american coal sales association, Washington DC	71
Roof fall accident campaign - 1955		Lewis Evans	Deputy secretary, PA department of Mines, Ebensburg Pa	77
Fire resistant conveyor belts, BOM Schedule No. 28		W. Dan Walker Jr	District supervisor, health and safety district B,m US Department of the interior, BOM, Pittsburgh Pa	83
New techniques and ideas in the prevent of bituminous coal mine accidents	December 13, 1956	George P. Resick	Mine inspector, PA DOM and Minerals industries, Spangler, PA	24
Bituminous coal mining in Turkey		George Trevorrow	Safety director, Bituminous coal operations association, Washington DC	30
How to attract high school students to the coal industry		John E. Osmanski	Manager of personnel, Island creek coal co, Holdent WV	39
What can be done to encourage mine personnel to become supervisors		Charels M Gardner	Safety inspector mather collieries, Pickands, Mather & Co, Mather Pa	46
How to further improve communications between management and labor on the local level		Thomas A King	Safety inspector, Emerald Mine, Emerald Coal and Coke co, Clarksville PA	51

Article Title	Date	Author	Author Info	Page number
Development of mine workers for future mechanical mining		myles E Altimus, Fr	Training supervisor, Frick District, US Steel Corp, Uniontown, PA	55
Mine Inspection and how it can best benefit men and management		Mutiple		73
The importance of proper attitudes		C.G. Evans	Personnel Manager, North american coal corp, Cleveland, Ohio	87
firefighting Equipment in modern coal mining		C. William Parisi,	Director of safety, Pittsburgh Coal Co, Library, PA	93
Mining Techniquet and productivity. Conventional mining		Mutiple		100
Mining techniquet and productivity, continuous Mining		Mutiple		106
Roof bonding expriments at the renton mine, allegheny county, Pennsylvania	December 12, 1957	E.R. maize	Mining Health and saefy engineer, Roof control research group, BOM, US dept of interior, Bruceton PA	25
Planning a new coal mine - surface facilities and development openings		G.W. McCaa	General Manager, Hanna Coal company, Consolidation coal company, Moundsville, WV	39
Planning a new coal mine - mine layout Haulage, Production		F. Earle, Snarr	VP, Operations, Freeman coal mining corporation, Chicago, Illinois	41
Planning anew coal mine P reparation Plant Design		F.R. Zachar	Consulting Engineer, Christopher Coal Co, Osage, WV	51
Planning a new coal Mine - staffing a new mine		John E Osmanski	Manager of Personnel, Island Creek coal co, Holden WV	61
The use of A.C. Equipment in face areas		John A Stachura,	General superintendent, Enoco, Collieries co, Bruceville, Ind	82
A.C. Power in working areas		C.L Sarff	Chief Engineer, Hanna coal co, division of Pittsburgh Consolidation Coal co, Moundsville WV	90
Auxiliary Ventilation of continuous miner places		R.W. Stahl	Mining health and safety engineer, Health and safty district BOM, US dept of interior, Pittsburgh PA	93
The gas well regulation act		W. Roy cunningham	Deputy Secretary, Oil and Gas Divison, DOM and mineral industries, Commonwealth of PA, Johnstown PA	107
the national campaign to prevent indurries from roof falls		Clinton H Hoch	Staff representative m, coal mining section, national safety council, Chicago, Illinois	119

Article Title	Date	Author	Author Info	Page nu
the development of supervisory personnel, mechanics and electricians		william A. Fullarton	Special assistant to the president, Pocahontas Fuel Company, Pocahontas, Virginia	123
Safety thorough selection		C.G. Evans	Personnel Manager, North american coal corp, Cleveland, Ohio	130
The effect of electric heating on coal consumption	December 11, 1958	R. G. MacDonald	VP - marketing, West Penn power Co, Cabin Hill, Greensburg PA	27
The control of mine ventilation utilizing mutiple main fans		J.A. Boyle	Chief minie inspector and OX conn ventilation engineer, Frick District, US Steel corp, Uniontown PA	35
Methods of controlling Power entering large coal mines in case of fan failure where mainly unmanned and widely separated substations are involved		W.g. Kegel,	General master mechanic Jones and Laughlin Steel corp, Vest-Shannopin Coal Division, California PA	45
Experimental roof infustion at the green vally mine, snow hill coal corp		A.G. Gossard	VP and general manager Snow hill coal corp, Terre Haute, Indiana	53
An invenstigation of material used for stopping construction in coal mine ventilation systems		Charles T Hollard	Head, departmetn of mining eng. VPI, Blacksburgh VA	60
How can we survive		Max Deberry	Judge, Thhird judicial circuit of west virigina Harrisville WV	81
Automatic control of mining machines		Gerald von Stroh,	Director minig development committee, Bituminous coal research inc, Huntington WV	90
Remote control of mining machines		a.W. Calder	Manager loader and continuous miner department, Joy manufacturing company, Franklin PA	95
Transportation of coal by pipe line method		Victor D Hanson	Chief mehcanical engineer, Consolidation coal company	NA
Automation of the haulage and classification of coal		John G Keneiling	PE of the staff of Theodore Jo Kauffeld M.E., P.E., consulting engineer, NY, NY	100
Automation of Mine haulage		william O Barnard	General superintendent, Christopher coal company, Osage WV	112
The contribution of roof bolting to Mine safety		a. J Barry	Mining mthods research engineer, BOM	124

Article Title	Date	Author	Author Info	Page nu
Team work necessary for safety and efficiency in modern coal mines		J. M Black	Mine inspector, PA dept of mines and minteral industries, Uniontown PA	132
A safety record - the result of cooperation between the mine workers, inspection agencies and management		Ewalt Herzog,	Safety director Hanna col co, Division of consolidation coal co, Cadiz Ohio	136
America takes a new look at coal	December 3, 1959	Joseph E Moody	President southern coal producers association, President national coal policy conference, Inc, Washington DC	23
Fundamental principles involved in face ventilation with auxiliary fans		D.S Kingery	Acting research director, H&S, Research and testing center, US DOI, BOM, pittsburgh pa	32
face ventilation and dust control and Borer-type continuous miners		John J. Adams	Industrial engiener, Mountaineer coal company, Division of consolidation coal co, Fairmont, WV	41
Ventilation problems with conventional mining		George stachura	Assistant vice president in charge of operations Bell & Zoller Coal Co, Johston city, Ill	52
Cave man to Space man		J. Lewis Powell	Mechanical and Aernautical engineer, Internationally famous lecturer, humorist and autho, Washington DC	55
Expierence with AC power at ireland mine		g. W McCaa	General Manager, Hanna Coal company, Consolidation coal company, Moundsville, WV	60
Mine Drainage control in Pennsylvania		L.S. Morgan	Chief mine drainage section, Pennsylvania department of health greensburgh Pa	N/A
Core drilling		N. M Spanos	Mining engineer, Frick distric USSteel Corp, Uniontown PA	66
Mechanization in the office		Ralph W. Hatch	Statistician Hanna coal company, Division of consolidation coal co, Cadiz Ohio	73
High expansion foam: use and method of application for bringign mien fires under control		John Nagy	Chief, Brance of dust explosions, BOM, Pittsburgh PA	78

Article Title	Date	Author	Author Info	Page nu
Accident record - Bituminous region first six months of 1959		M. W thomas	Commonwealth of PA, Department of mines and minerals industries, Windber, Pa	96
Significance of bureau of mines research to the coal mining industry	December 15, 1960	Marling J. Ankeny	Director BOM, Washington DC	23
Productivity		Edward G Fox	President, Bituminous coal operations association, Washington DC	33
Use of the Moveable shield as protection from falls in face areas		James T Jones	Assistant Superintendent, Mather collieries, Pickands, Mather & Co, Mather, Pa	43
Recovering Pillars with continuous miners - emphasis on use of hydraulic jacks		Waynes D. Snell	Chief mine inspector, Frick District, Coal operating division, US Steel corp, Uniontown, PA	54
Thru Steel dust collection for roof bolters on continuous miners		Walther R. Weaver	Mining industrial engineer, Vesta-Shannopin Coal Division, Jones & Laughlin Steel Corp, California, PA	66
Research on float dust hazards		John Nagy	Chief Brance of dust explosions Health and safety research and testing center BOM	75
Aw, Stop Worryin		Winston K Pendleton	Washington Newspaperman and political public relations consultant, Arlington Va	84
Daily matintenance and complete overhaul of continuous miners		Fred R. Hilderbrand	Maintenance supervisor, national mines corp, Isabella PA	99
Equipment Mounted fans in low coal areas		Thomas E. Jones	Inspector, 6th Bituminous distruct, commonwealth of Pennsylvania department of Mines and mineral industries, Beaverdale, PA	110
Package handling of mine supplies		James L Tenley	Chief engineer Delmont Fuel Co, Hunkers Pa	117
bulk handling of mine supplies		v.D. Hanson	Chief mechanical engineer, Pittsburgh coal co, Division of consolidation coal co, Library, PA	120
fire resistant Hydraulic Fluids - Technical Services of the Manufacturers provide for immediate practical application		Arthur W. Yoder	District Chief Engineer, Mobil Oil Company, MeKees Rocks PA	125

Article Title	Date	Author	Author Info	Page nu
Trailing cables the No 1 fire hazard undergroud - Precautions		C.L. Brown	Mining Engineer, Electrical US BOM, Pittsburgh PA	127
high expansion foam plug - a practical instrument for combatting underground fire		J. C Olzer	Safety director Ireland Mine, Hanna coal co, Division of Consolidation coal Co, moundsville WV	134
High expansion foam Plus - use at Montour No, 4 Mine Fire		C. William Parisi	Director of Safety Pittsburgh coal co, Division of consolidation coal co, Library, PA	140
The challenge to management	December 14, 1961	James L Hayes	Dean school of business administration dequesne university, Pittsburgh Pa	17
Revisions of the bituminous mining laws of pennsylvania		Lewis E. Evans	Secretary of Mines, Harrisburg PA	21
Uplift work		W.L. Affelder	President Emerald coal and coke company, Pittsburgh Pa	28
Safer Mining fluids		Charles A Bailey	Chief lubrication engineer, national tube division united states steel corporation, Pittsburgh PA	36
the human element in coal mine safety		Leonard J. Timms	Director WV deprt of mines, Charleston WV	42
Water as an inert for neutralizing the coal dust explosion hazard		Donald W Mitchell	Chief Mine experiments section, Branch of dust explosions, US BOM	57
Address at dinner		Steward L Udall	Secretary of the Interior	59
Notes on the Theory of the maximum pressure arch and field pillar techniques as applied to entry panel design		Charels T Holland	Dean, School of Mines, WVU, Morgantown, WV	68
Roof control with hydraulic jacks		Edwin P Sheriff	Resident engineer, Eastern Gas and Fuel Associates, Kopperston Operation, Kopperston, WV	78
Methods of controlling roof at intersections and junctions in underground coal mines		R. Ward Stahl	Mining Health and safety engineer, BOM, Pittsburgh PA	82
Resume of roof support methods used in coal mines		A.J. Barry	Acting Chief, Roof control research group, BOM, pittsburgh PA	95
the selection of production equipment		Waynes A McCurdy	Chief, Division of mining and perparation US DOI, Office of coal research, Washington DC	105

Article Title	Date	Author	Author Info	Page nu
Efficiency Derived from the use of continuous miners		G.E. Ferrell	General Superintendent, Westmoreland coal company, Madison WV	115
High capacity conventional equipment		Jack N Matheson	Chief Mehods engineer, Island Creek coal company, Holden, WV	119
Increased Productivity through technology		W.L Wearly	President, Joy Manufacturing company, Pittsburgh PA	124
Is your management under control?	December 13, 1962	James L. Hayes	Dean school of business administration dequesne university, Pittsburgh Pa	15
Control of Coal mine drainage		S.A. Braley	Administrative fellow, Mellon Institute, Pittsburgh PA	28
Computer applications in the coal division of US Steel Corporation		William L Zeller	Assistant industrial engineer, central operations, coal, frick district, US steel corp, Uniontown, PA	33
Advantages in the use of Diesel-powered transportation units		E.E. Quenon,	Director of safety Peabody Coal Company, St. Louis, Missouri	40
Prevention and control of heat dryer ignitions		W.L. McMorris, Jr.	Director of coal preparation and distribution, US Steel corp, Pittsburgh PA	46
Coal - Basic energy for the Space Age		Stuart T Saunders	President, Norfolk and Western railway company, Roanoke, VA	53
Dust control in connection with continuous mining operations		Floyd G Anderson,	Chief dust resesearch section, BOM, Pittsburgh PA	60
New methods and materials in maintaining continuity in face ventilation		James V. Burgess Jr	General manager Mine ventilation systems inc, Madison WV	75
Rapid and inexpensive erection of stoppings with rigid foam		Donald W Mitchell, Chief Mine experiments section, Dust explosions, BOM, Pittsburgh PA		80
The requisites for a successful safety program		W.L. Groves	Bituminous mine inspector, PA dept of mines and mineral industries, indiana, PA	88

Article Title	Date	Author	Author Info	Page number
Technical considerations of fuel injection into the blast furnace		J.C. Agarwal	Research associate, raw materials Utilization, Applied research Laborator, US Steel Corp, Monroeville, PA	92
Pillar extraction in High coal - Emphasis on Push out stumps		william Laird,	Superintendent, Eastern Gas and Fuel Associates, Grant Town WV	108
Personal protective equipment and prevention of induries	December 12, 1963	James F. Fildey	Director of safety and inspection, Bethlehem Mines Corp, Johnstown, PA	25
Sealing a coal-mine passageway through a bore-hole: A progress reprot		John Nagy	US Bureau of Mines	30
Sealing a coal mine passageway romotely through a borehol hole - a practical application		John D Klasky	Ventilation engineer, easter associated coal corp, Pittsburgh Pa	39
Time and dimension parameters in face-mining systems and their effect on production		L.J. Prelaz, J. Richard Lucas, P.T. Sironko	Department of engiener, VPI, Blacksburg Va	41
Steel looks at coal		Leslie B Worthington	President US Steel corp, Pittsburgh PA	55
Coal mining experiences in distant countires		Clayton G Ball	President, Paul Weir company, Chicago Illinois	63
Observation on control of the coal dust explosion hazard in european mines		Donald S. Kingery and Donald W Mitchell	US Bureau of Mines	70
8 1/2 Mile main line belt transportation of coal		W. G. Kegel,	Assistant manager of coal mines, Jones and Laughlin steel corporation	78
Operating experience with the boring machine at the Humphrey No 7 mine		e. Louis Murphy	Superintendent, Humphrey No 7 Mine, Christopher coal company, Osage, WV	85
Operating Experience with the Lee-Norse Continuous miner at Mathies Coal company		J.S. Whittaker,	WVP, Pittsburgh Coal company, Library PA	92
Involvements of the Unit-train Concept		Richard D. Snouffer, Victor D. Hanson		96
Conclusions for the future	December 10, 1964	Joseph E. Moody,	President , national coal policy conference Inc Washington DC	19
Field experience with a methane monitor		R.C. Beerbower Jr.	General Superintendent, frick district, US Steel Corp, Uniontown Pa	27

Article Title	Date	Author	Author Info	Page nu
Progress report on the development of methane monitoring systems by Bureau of Mines		Clyde L Brown	Chief, Branch of electrical mechanical testing, US DOI, BOM, Pittsburgh PA	37
Bethlehem's next step to zero program		J.F. Wildey	Director of safety and inspection Bethlehem Mines corporation, Johnstown, Pa	40
Outline for selection and training of men for maintenance		Eugene E Stacey	Maintenance Engineer, Pittsburgh coal company, Division of consolidation coal company, Library, PA	45
Steel meets the challenge		Steward S. Cort	President Bethlehem Steel Company, Bethlehem PA	48
The Experience of the old ben coal corporation with goodman continuous mining machines		OD. McDaniel Jr.	Superintendent, Mine # 9, Old ben coal corporation, West Frankfort Ill	54
Use of the 86-A Colmol in thin seams		John G Emerick	Assistant to Chief Engineer, Barnes and Tucker company, Barnesboro, Pa	62
Flexibility of battery-powered haulage equipment		Vance price	Chief mining engineer, Amherst coal company, Lundale, WV	65
Fan monitoring and power control systems		Ralph I Krek	Coal mine inspector electrical, US DOI, BOM pittsburgh pa	75
Practical course for mine supervisors in ventiation		C. William Parisi	Director of safety pittsbrugh coal company, Division of consolidated coal company, library Pa	90
Present and future problems of the coal industry	December 9, 1965	Robert E. Lee Hall	VP, National coal association, Washington DC	17
the invisible power of coal - NCA Film		Robert E. Lee Hall		23
Problems involved in opening a new coal mine		J.C. Ldraper	Mining Engineer, coal department, Duquesne Light company, Pittsburgh PA	25
Development of underground mining equipment for tomorrow's coal mines		James A Drain	President Joy Manufacturing company, Pittsburgh PA	32
Longwall in 1965		M. Albert Evans	Mining Consultant, Cresson PA	36
Continuous face haulage at Zeigler No 4 Mine, Bell & Zoller Coal company, Johnston City, Ill		Ramon A Gothard	Superintendent, Zeigler No 4 Mine	61

Article Title	Date	Author	Author Info	Page nu
Activities of bituminous coal research Inc		James R Garvey	President and director of research Bituminous coal research Inc, Monroeville PA	69
The development and operation of the MDT Program for face Mechanics		Joseph W Hunt	Professor of Mining Engineer, Department of Mining, the Pennsylvania State University, University park PA	83
Current problems facing the coal industry in Pennsylvania		Robert T. Laing	Executive director and secretary-treasurer of the central Pennsylvania coal producers association, Altoona, PA	94
The production of pipeline quality gas from coal		G.I. Staber	Assistant chief, utilization division, office of coal research, US. Department of the interior, Washington DC	100
Problems of coal mine safety in Pennsylvania		H.B Charmbury	Secretary of mines and mineral industries, commonwealth of Pennsylvania, Harrisburg Pa	107
Float coal hazard in mines		John Nagy	Chief, Branch of dust explosions, Heaalth and safety research and testing center BOM, Pittsburgh PA	111
Experience with roof bolts anchored with a resin cartridge		John A McCormick	Supervising mining methods research engineer, roof control research group, health and safety research and testing center, BOM, US DOI, Pittsburgh PA	120
The role of urethane foam in mines		Donald W. Mitchell	Assistant Chief, Branch of dust explosions BOM	126
The development and application of the U-40 series (Kennametals' "plumb Bob' tools)		Robert J McKenry	Staff service engineer, Kennametal, Inc, Mining tool Division, Bedford PA	130
Metering rock dust		Francis R Boyle	Chief mine inspector, Frick District, Coal operating division, US Steel corp, Uniontown, PA	138
The challenging opportunity of coal in the atomic age	December 15, 1966	william Bellano	President Island Creek coal company, cleveland Ohio	17

Article Title	Date	Author	Author Info	Page nu
Manpower needs of the coal industry				
Supervisory and technical		William Saalbach	Personnel director, Consolidation coal company, Library PA	31
Maintenance		Myles E. Altimus Fr.	Supervisor - development and training, Frick District, US Steel corporation, Uniontown PA	35
Needs for underground Mining Personnel in the coal industry		WF. Eigenbrod	Director department of mines, State of West Virginia, Charleston WV	42
Innovations for safety				
A review of trickle dusters in gary district		E.W. Henry Fr	Senior mining engineer, Gary District, US Steel Corp, Gary, WV	45
Progress report on Methane monitors		George C Trevorow	Safety director Bituminous coal operations association, Washington DC	54
Quenching face ignitions		Edwin M. Murphy	Chemical research engineer, brach of dust explosions, Health and safety research and testing center, US BOM, Pittsburgh PA	59
Automatic high expansion foam systems		George L Alston	Product line manager, mine safty appliances company, pittsburgh PA	64
Infrared heat detector		W. J. Halvorsen	Assistant to Chief Engineer, Consolidation coal company, Library, PA	70
Mine water treatment program		H.B. Charmbury	Secretary, Department of mines and minteral industries, Commonwealth of Pennsylvania, Harrisburgh PA	71
Froth flotation research (study of the mechanism of coal flotation and it's role in system for process fine coal:		Frank G. Miller	Research Engineer, Homer Researhc Laboratories, Bethlehem Steel corporation, Bethlehem PA	81
Coal in the Pennsylvania Economy		George H.K. Schenck	Professor, Department of mineral economics, College of mineral industries, the Pennsylvania state university	93
Congress, Industry, and the environment	December 14, 1967	George W Sall	Associate director, Government relations, national Coal Association	16

Article Title	Date	Author	Author Info	Page nu
Dust control in connection with continuous mining operations		Roberty L. Vines	Assistant safety director, Bituminous coal operations association, Washington DC	24
Maintenance of refuse disposal areas		R.C. Beerbower, Jr.	General Superintendent, frick district, US Steel Corp, Uniontown Pa	30
Review of research on acid mine drainage control		E.A. Zawadzki	Project scientist, Bituminous coal research Inc, Monroeville Pennsylvania	39
Coal Mine drainage Treatment		e.F. Young Jr	Assistant director technical services Vesta - Shannopin coal division, Jones and Laughlin Steel corporation, Pittsburgh PA	53
The distaff view of Pennsylvania Mining: What has happened: Now; What lies ahead		Mrs. M.,B. Gutshall	Executive deputy secretary, Department of Mines and Mineral Industries, Commonwealth of Pennsylvania	61
Roof control Techniquet		W.O. Montgomery	Coal mine inspector, roof control BOM, H&S District A, US DOR, Johnstown PA	69
In Situ mine roof trusses combining rock compression with steel tension members		Claud C. White	President Birmingham Bolt company	75
High voltage for machinery		John A Buss	American mining congress, Underground power committee,	84
Roof drilling with a milling type miner		A.J. Bartlett Jr.	District Industrial Engineer, Republic Steel corporation, Northern coal mines, Uniontown, PA	95
Mobile gas testing gallery - a training facility		Francis R. Boyle	Chief mine inspector, Frick District, Coal operating division, US Steel corp, Uniontown, PA	99
Research on gas explosions in the Bureau of Mines Experimental coal mine		Edward M. Kawenski,	Supervisory Mining Engineer, BOM, US DOI, Pittsburgh PA	105
Controlling and abandoned mine fire with fly ash	December 12, 1968	Malcom O Magnuson	Project coordinator, Mine fire control, Hlalth and safety research and testing center Pittsburgh PA	21

Article Title	Date	Author	Author Info	Page number
Use of Fly ash for remote filling of underground cavities and passageways		Edwin M. Murphy	Chemical research engineer, Dust and ventilation BOM,Pittsburgh PA	32
Fly ash problem - buried in deep mine		L.R. love	General superintendent Duquesne Light company, Pittsburgh PA	57
Refuse Disposal		E.D. Hummer	Assistant Chief Engineer, US steel Corporation, Gary coal district, Gary, WV	68
Why trailing cables fail		Steve Bunish	Mining cable engineer, anaconda Wire & Cable co	74
Use of 1,000 volt face equipment to Date		J.H.Nash	VP and Electrical Engineer, Ensign Electrick & Manufacturing Company, Huntington WV	81
Controlling fire hazards to electrically powered equipment		robert L Vines,	Safety director Bituminous coal operations association, Washington DC	82
The Jeffrey 120 Heliminer		william E. McCracken	product manager, Jeffrey Mining Machinery Co, Columbus Ohio	88
Installation and operation of longwalls		John Wells	Special assistant to vice president of production, Eastern Associated coal corporation, Koppers Building, Pittsburgh PA	94
Longwall trends		George McCaa	Assistant to VP Barnes & Tucker, Coal company Barnesboro PA	96
The development of Shoemaker Mine by driving through the old benwood mine	December 11, 1969	J.S. Whittaker	President Ohio valley division Consolidation coal company	23
Mining engineering aspects of longwall system parameters in North america		Joseph Kuti	Chief Mining engineer, Mining processes Inc	23
Longwall mining problems - maintenance and moving		Robery Foley	Mine manager, Greenwich Collieries Barnesboro	36
Giant Steps required in mine safety research		H.B. Charmbury	Secretary of mines and mineral industries, Commonwealth of PA	43
the Associate degree program in mining engineering		Joseph W Hunt	Professor mining engineering, PA state university	51
Training for section foreman to meet requirements of the coal industry		BP Romero	Director of public relations, Eastern Associated Coal corporation	59

Article Title	Date	Author	Author Info	Page nu
Dust sampling and control procedured to comply with the 4.5 mg of coal dust		william Laird,	VP Engineering Eastern Associated, Coal corporation, Pittsburgh PA	68
Degasification of a coal seam longwall gob areas		PA Ferguson	General Superintendant, Bethlehem Mines corporation, Cambria Division	80
Research for Controlling dust explosion by wathering roadways		Edward M Kawenski, John Nagy	US Bureau of Mines	81
Status of metallurgical coal present and future	December 1, 1979	Richard E Thompson	VP National Steel corp	1
Health effects of SO2 and sulfates		William Poundstone	Executive VP, Consolidation Coal Company	4
the coal loan guarantee program		Edgar L. Gray	Resource specialist, DOE, Region 3	8
Address to mining engineering and associated mining engineering students		Jesse Core	Presidents commission on coal	9
the evolution of diesel equipment in underground mining		Richard V. Wenberg	VP Technical services Eimco Mining Machinery	14
Historical review of American continuous miners		Edmund Warner	Director of engineering Mining machinery division, Joy machinery company	20
High speed shaft and slope sinking		Robery pond	General manager, Frontier-Kemper constructos	27
Blind shaft drilling		Jim Emerick	Shaft drilling representative, Teton Big hole drillers Inc	32
Methane Drainage and transport in consol mines		Promod C Thakur	Research group leader,	33
Environmental viewpoint		Clifford L. Jones,	Secretary, PA dept of Environmental resources	38
Beginning of new decade in coal and energy		Thomas V. Falkie	President Berwind Natural Resources Co	39
Labor-management relations viewpoint		Joseph P Brennan	President, Bituminous coal operations association Inc	46
Report on the president's coal commission	December 1, 1980	Jesse F. Core	Adjunct professor of mining, Pennsylvania State university	6
Pennsylvania and it's future in the energy market as it relates to coal		william W. Scranton III	Lt. Governor, Commonwealth of PA	6
Remember the monitor		Richard F. Schubert	Vice Chairman, Bethlehem Steel corp	6
Let's get the facts on acid rain		William Poundstone	Executive Vice President, Consolidation Coal company	12

Article Title	Date	Author	Author Info	Page nu
Automated temporary roof support		M. Terry Hoch	Supervisory Mining Engineer, BOM, US DOI, Pittsburgh PA	17
Remote sensing in the coal mining industry, an update		John J. Jansky	Geologist, roof Control branch, Pittsburgh Technical Support Center MSHA	22
Injury trends in coal mining		Donald Walker	Chief, health and safety analysis center, MSHA	33
Degasification of longwalls - the complete story of methane boreholes in the cambria division		Frank A. Burns	General Superintendent, Cambria Division Bethlehem Mines Corporation	37
Current methods to control respirable dust on US Longwall mining operations		Donald P. Schlink	VP, Mining engienering, Jim walters resources corporation	44
Subsidence regulation as it relates to longwall mining		Thomas B. Alexander	Chief Mine Subsidence regulations, PA dept of Environmental Resources	56
the coal mining industry in china today		David D. Eyer	VP Engineering, Consoliation Coal Company	61
the coal electric connection	December 1, 1982	Vincent Butler	President, PA electric association	1
Great plains gasification project		Noel F. Mermer	President, Grat Plains Gasification Associates	10
Dam and lock situation and solution		Honorable Austin J. Murphy	US Congressman	10
Opportunities for the recient graduate in the coal industry		Marshall Hunt	Regional manager-engineer, Consolidation coal compnay	10
Presentation of paper by recipient of the Donald S Kingery award		Edward J. Onuscheck	VP safety and training, Rochester and Pittsburgh coal company	17
The future of mining		Joseph Brennan	President Bituminous coal operators association	17
Message from James Watt, Secretary of the Interior		David Eyer	Consolidation coal company	24
Baltimore coal terminal project		David D. Eyer	VP Engineering, consolidation Coal company	26
Women in Mining		Francis M. Cooley	Head planning Engineer, Bethlehem Mines Corporation	26
New continuous miner technology		William D. Mayercheck	US Dept of Energy	31
Acme Miner-bolter		W. Clint Maynard	Regional Manger, Acme Machinery Company	32

Article Title	Date	Author	Author Info	Page nu
the miniminer system		Albert K Mock Jr.	Limited partner, montgomery mining machinery manufacturing Co Ltd	32
Fairchikd umbrella miner-bolter		Robert Salak	VP of sales, Fairchild research and Development Inc	43
Batac Jigs		Richard Rogel	Preparation engineer, Pennsylvania Mines Corp	49
Utilizing extendable line canvas and venturi water sprays to increas productivity in underground coal mines		Joseph C. Wilcox Fr	Mining Engineer, Bethlehem Mines Corporation, Cambria Division	49
Mine subsidence regulation after primacy	December 1, 1983	Henry Ingram	Partner and attorney, Rose, Schmidt, Dixon, and Hasley	1
Pennsylvania coal and it's future		William G. Kegel	President and chief exectuive officer, Rochester & Pittsburgh Coal company	1
Address to students at luncheon		Richard Trumka	President UMWA	9
Presentation of paper by recipient of the DS Kingery Award		William Parisi	Safety director, Consolidation coal company	10
Coal cleaning test facility - Objectives and capabilities		James D. Hervol	Assistant manager Coal cleaning test facility electric power research institute	10
Overview of bureau of mines coal mine research		John N. Murphy	Research director, Pittsburgh research center, US BOM	22
Market potential, Pennsylvania Coal		Arthur L. Zervev Fr.	Presidetn, United Eastern coal sales corporation	53
update of underground diesel equipment		Wayne Armstrong	Senior industrial engineer, Consolidation coal co	53
Present status of the acid rain issue		william Poundstone	consultant	57
control and prevention of acid mine drainage		Dr. Robert L Kleinmann	Supervisory Geologist, Environmental control, Pittsburgh research center, US DOI	60
A view from the public utility commission	December 1, 1984	Linda Taliaferro	Chairman, PA Public utility commission	1
Conrail-service to the caol industry		Stewart M. Reed	Presidetn and chief operating officer, conrail	3
Long-term plans of coal mining in Pennsylvania		E. Morgan Massey	President, A.T. Massey Coal company inc	9
Remote belt monitoring		Bruce Berzonsky	electrical Engineer, Barnes and Tucker Company	29

Article Title	Date	Author	Author Info	Page nu
Preparation automation		Mike Evans	Preparation engineer, Consolidation coal company	41
Status of Consol/conoco Combustion tehcnology development		guy Lewis	Research Engineer, Conoco Inc	41
the value of safety incentives		Edward J. Onuscheck	VP safety and training, Rochester and Pittsburgh coal company	45
Underground testing of a scrubber and remote control continuous miner with blowing face ventilation to improve productivity		John A. Kost, John volkwein	Manager, Mining research BCR national laboratory	47
Extending longwall face width		James Deems	Regional industrial engineer, Norther WV region, consolidation coal company	52
Productivity for Survival		C.R. Savidge	President, South Hopkins coal company	58