

## INDEX TO VOLUME 17

Leading articles are in **Bold Face Type**; notes, abstracts and reviews are in ordinary type. Only minerals for which definite data are given are indexed.

Albitite from Shetland Isles. (Walker).....	250	Bavenite, a beryllium mineral pseudomorphous after beryl, from Calif. (Schaller, Fair- child).....	114, 409
Alderman, A. R.....	39	Beardsley meteorite. (Nininger)	563
Alkanasul (Westman).....	495	Becke, F. J. K., memorial of. (Kraus).....	226
Alleghanyite, optical, physical and chemical data.....	7	Beljankin, D. S.....	252
Allen, V. T., Galena replacing Pennsylvanian rootlet.....	156	Benn, J. H. Unusual feldspar crystals at Moneta, Va.....	492
Alling, H. L., Perthites.....	43	Bentley, W. A. and Humphreys, W. J. Snow crystals. [Book review].....	123
Ally, A. and Clark, G. L., X-ray examination of chrome ores	66	Beringer, H. R. Simple deter- minative mineralogy. [Book review].....	494
Aminoff, G.....	251	Berman, H., Fibrous brucite from Quebec.....	114, 313
Andrews, W. S., Biographical notice. (Palache).....	78	Bird, P. H., New occurrence and x-ray study of mose- site.....	541
Anorthoclase-bearing rock glass, changed composition of. (Hawkes, Harwood).....	250	Block structure in crystals, sig- nificance of. (Buerger)....	177
Anthophyllite series, variations in optical properties and composition. (Henderson, Ross).....	114	Bloedite, refractive indices of. (Schaller).....	530
Ardeelite. (Schadler).....	251	Braggite, a new platinum min- eral.....	455
Arsenoklasite. (Aminoff).....	251	Brine content of negative crys- tal cavities of galena. (Buerger).....	228
Ashtonite, preliminary note and analysis. (Poitevin).....	120	Brookite crystals, tabular par- allel to base. (Phillips)....	39
<b>Babingtonite. (Palache, Gonyer)</b> .....	114, 295	Brucite, dehydrated, structure of. (West).....	316
Ballmer, G. J., Native tellurium from N. Mexico.....	491	Brucite, fibrous, from Quebec. (Berman).....	114, 313
Bandy, M. C. Castanite from Chile.....	534	Brugnatellite.....	350
Bannister, F. A.....	250, 455	Buerger, M. J. Cleavage sur- faces of galena.....	391
Baringer Hill, Texas, pegma- tite. (Landes).....	115, 381	——— Negative crystal cav- ities of galena and their brine content.....	228
Barite, microcrystals from Calif. (Howard).....	120	——— Significance of block	
Barite vein cutting granite of S. E. Missouri. (Tarr).....	115, 443		
Barth, Tom F. W., Chemical composition of noselite and haiyüne.....	466		
Basaltic glass. (Fuller).....	104		

structure in crystals.....	177	garnet veinlets.....	554
Bulfonteinite, a new fluorine-bearing hydrous calcium silicate from S. Africa. (Parry, Williams, Wright). .	455	Cooperite, crystal structure of. (Bannister).....	455
Calaverite and the law of complication. (Peacock).....	317	Correct and incorrect statements of crystallographic theory in current textbooks. (Tunell, Morey)...	365
Calcite, manganese-bearing. (analysis).....	5	Creedite from Nevada. (Foshag) .....	75
$\text{Ca}_2\text{SiO}_4$ and $\text{Mn}_2\text{SiO}_4$ , mixed crystal of. (Greer).....	135	Crystal structure models, new method of building. (Gruner).....	35
Camsellite.....	509	Cuprotungstite, chemical composition of. (Schaller).....	234
Castanite from Chuquicamata, Chile. (Bandy).....	534	Dana's Textbook of mineralogy. [Book review.].....	539
Cebollite, new optical data.....	349, 356	Desericitization: a process operative during high-temperature mineralization. (Landon).....	449
Celsian.....	171	Descriptive petrography of the igneous rocks. (Johannsen) [Book review.].....	41
Cesium biotite from Custer Co., S. Dakota. (Hess, Fahey). .	173	Deuteric and later alterations of uncomphagrite. (Goranson, Larsen).....	343
Chalcopyrite and pyrite inclusions in sphalerite. (Shenon).....	514	Diamond twin, multiple. (Patache) .....	360
Chrome ores, x-ray examination of. (Clark, Ally).....	66	Diopside-quartz-garnet veinlets. (Goodspeed, Coombs) .....	554
Chudoba, K. Die Feldspäte und ihre praktische Bestimmung. [Book review.].....	456	Dittler, E. ....	495
— Mikroskopische Charakteristik der gesteinbildenden Mineralien. [Book review.].....	456	Drugman, J. E. ....	455
Clark, G. L. and Ally, A., X-ray examination of chrome ores. (1) Lattice dimensions. (2) Theoretical densities.....	66	Dryden, Lincoln, Heavy minerals of Maryland coastal plain.....	518
Cleavage surfaces of galena. (Buerger).....	391	du Fay, Charles-Francois, pioneer in crystal optics. (Pabst).....	569
Clerici's solution, restandardization of. (Hawkins).....	157	Eakle, A. S., memorial of. (Schaller).....	94
Clinoptilolite, a new species. (Schaller).....	128	Eardley, A. J. Book review.....	573
Collophane, detrital. (Martens) .....	153	Eckel, E. B., Garnet as an amygdale mineral.....	116, 522
Complication, law of. (Peacock) .....	317	Edson, F. C., Heavy minerals as a guide in stratigraphic studies.....	116, 429
Connecticut, minerals of. (Schairer) [Book review]. .	200	Ellsworth, H. V., Gadolinite	
Coombs, H. A. and Goodspeed, G. E., Quartz-diopside-			

from Frontenac Co., Ont...	96	Garnet-diopside-quartz veinlets. (Goodspeed, Coombs)	554
— Monazite colored by carbon, from Nipissing district, Ont.....		Gems and gem materials.	
Erzmikroskopischen Bestimmungstafeln. (Schneiderhöhn, Ramdohr) [Book review.].....	19	(Kraus, Holden) [Book review.].....	124
Examination of fragmental rocks. (Tickell) [Book review.].....	83	Gildersleeve, B., Some stages in disintegration of glauconite.....	98
Fahey, J. J. and Hess, F. L., Cesium biotite from S. Dakota.....	173	Gillespite.....	170
Fairbanks, L. E. [Book review.] .....	40, 494	Gilluly, J. and Reed, J. C., Heavy minerals of plutonic rocks of eastern Oregon..	201
Fairchild, J. G. and Schaller, W. T., Bavenite.....	409	Glaucocerinite. (Dittler, Koehlin).....	495
Feldspäte und ihre praktische Bestimmung. (Chudoba) [Book review.].....	456	Glauconite, stages in disintegration of. (Gildersleeve) ..	98
Feldspar crystals, unusual. (Benn).....	492	Gold crystals, euhedral, from Mariposa Co., Calif. (Rogers).....	115
Ferrotremolite, oxyhornblende and tourmaline. (Winchell) .....	114, 472	Gonyer, F. A., Irving, J. and Vonsen, M. Pumpellyite from California.....	338
Flattened minerals in muscovite at Spruce Mine, N. Car. (Hall).....	115	— and Palache, C., Babbingtonite.....	114, 295
Ford, W. E., Dana's Textbook of mineralogy. [Book review.].....	539	— New iron meteorites from Chile and Texas.....	357
Foshag, W. F., Creedite from Nevada.....	75	Goodspeed, G. E. and Coombs, H. A., Quartz-diopside-garnet veinlets.....	554
— and Palache, C., Chemical nature of joaquinite .....	114, 308	Goranson, E. A. and Larsen, E. S., Deuterian and later alterations of the uncom-pahgrite of Iron Hill, Col... Greer, W. L. C., Mix-crystals of $\text{Ca}_2\text{SiO}_4$ and $\text{Mn}_2\text{SiO}_4$ ...	343
Fuller, R. E., Basaltic glass....	104	Grout, F. F. Petrography and petrology. [Book review.] .....	494
Gadolinite from Frontenac Co., Ont. (Ellsworth).....	96	Grünerite from Lake Superior region. (Richarz).....	437
Galaxite, a new spinel.....	15	Gruner, J. W., Magnesiosussexite, new mineral iso-morphous with sussexite and camsellite.....	509
Galena, cleavage surfaces. (Buerger).....	391	— New method of building crystal structure models... .	35
Galena replacing Pennsylvanian rootlet. (Allen).....	156	Hall, G. M., Flattened minerals in muscovite at Spruce	
Garnet as an amygdaloidal mineral. (Eckel).....	116, 522		

Pine, N. Car.....	115	Jade, identification by means of x-rays. (Merritt).....	497
Harwood, H. F.....	250	Joaquinite, chemical nature of. (Palache, Foshag).....	114, 308
<b>Hätyne and noselite. (Barth) .....</b>	<b>466</b>	Johannsen, A., Descriptive pet- rography of the igneous rocks. [Book review.].....	41
Hawkes, L.....	250	Juanite, a new mineral.....	349, 354
Hawkins, A. C. and Lewis, J. V., Manual of determina- tive mineralogy. [Book re- view]......	123	Julienite. (Schoep).....	496
Hawkins, H. H., Restandardiz- ing of Clerici's solution....	157	Kaolinite from terminal mo- raine of Staten Island. (Kerr).....	29
<b>Heavy mineral assemblages of plutonic rocks of eastern Oregon. (Reed, Gilluly)....</b>	<b>201</b>	Karpinski, R. W. Book review..	573
<b>Heavy minerals of coastal plain of Maryland. (Dryden)....</b>	<b>518</b>	Kerr, P. F., Kaolinite from terminal moraine of Staten Island.....	29
<b>Heavy minerals as a strati- graphic guide. (Edson)....</b>	<b>116</b>	— Montmorillonite or smec- tite as constituents of full- er's earth and bentonite.. .	192
Hematite.....	429	— and Ross, C. S., Man- ganese minerals near Bald Knob, N. Car.....	1
Henderson, E. P. and Ross, C. S., Variations in optical properties and composition in anthophyllite series.....	305	King, B. F., Mineral composi- tion of sands from Monon- gahela, Allegheny and Ohio rivers.....	485
Hess, F. L. and Fahey, J. J., Cesium biotite from S. Dak.....	114	Koechlin, R.....	495
Hey, M. H.....	173	Kraus, E. H., Memorial of Friedrich Becke.....	226
Hodge, E. T., Petrographic succession of tertiary igne- ous rocks in Oregon.....	160, 455	— and Holden, E. F., Gems and gem materials. [Book review]......	124
Holden, E. F. and Kraus, E. H., Gems and gem materials. [Book review]......	116	Landes, K. K., Baringer Hill, Texas, pegmatite.....	115, 381
Howard, A. D., Micro-crystals of barite from Calif.....	124	Landon, R. E., Desericitization, a process operative during high temperature minerali- zation.....	449
Humphreys, W. J. and Bentley, W. A., Snow crystals. [Book review]......	123	Largest crystal. (Palache).....	362
Hunt, W. F., Book reviews.....	200, 494	Larsen, E. S., [Book reviews.]	41, 456
Idriess, I. L., Prospecting for gold. [Book review]......	573	— and Goranson, E. A., Deuteric and later altera- tions of the uncom-pahgrite of Iron Hill, Col.....	343
Irving, J., Vonsen, M. and Gonyer, F. A., Pumpellyite from Calif.....	338	— and Schaller, W. T., Serendibite from Warren	
Isomorphous substitution of elements in minerals. (Phillips).....	85		
Ito, T.....	39		

Co., N. Y. and its para-			
genesis.....	457	Arabia. (Smith).....	39
Lavas of the Modoc Lava-		Meteorite, Beardsley. (Nin-	
Bed quadrangle, Calif.		inger).....	563
(Powers).....	253	Meteorite craters at Henbury,	
Legrandite, a new zinc arsenate.		central Australia. (Alder-	
(Drugman, Hey).....		man).....	39
Lehrbuch der Erzmikroskopie.		Meteorites, iron, from Chile	
(Schneiderhöhn, Ramdohr)		and Texas. (Palache,	
[Book review.].....	79	Gonyer).....	357
Lepidolite system. (Winchell) ..	551	Meteorite, metallic, from Ogallala, Nebraska. (Nininger) .....	221
Leucophosphite. (Simpson) ..	495	Meteorite, Springwater. (Nininger).....	396
Lewis, J. V. and Hawkins, A. C.,		Miami-Picher zinc-lead district.	
Manual of determinative		(Weidman) [Book review.] .....	573
mineralogy. [Book review.]	123	Microscopic characters of arti-	
Linear projection in geometrical		ficial inorganic solid sub-	
crystallography. (Rogers). .	113	stances or artificial min-	
Magnesiosussexite, a new min-		erals. (Winchell) [Book re-	
eral isomorphous with sus-		view.].....	404
sexite and camsellite.		Mikroskopische Charakteristik	
(Gruner).....	509	der gesteinbildenden Miner-	
Manganese minerals of a vein		alien. (Chudoba) [Book	
near Bald Knob, N. Car.		review.].....	456
(Ross, Kerr).....	1	Mineral composition of sands	
Manual of determinative miner-		from Monongahela, Alle-	
alogy. (Lewis-Hawkins)		gheny and Ohio rivers.	
[Book review.].....	123	(King).....	485
Marcasite and pyrite in nod-		Mineralogical Society of	
ules, distinction of. (Ban-		America.	
nister).....		List of former officers and	
Martens, J. H. C., Detrital col-		meetings.....	118
lophane.....		Nominations of officers for	
— Piperine as an immer-		1933.....	454
sion media in sedimentary		Proceedings of 12th annual	
petrography.....	198	meeting at Tulsa, Okla.	
Mayo, E. B., Two new occur-		1932.....	108
rences of piedmontite in		Mineralogical Society of Great	
Calif. ....	117, 238	Britain and Ireland.....	
McLintock, W. F. P. ....	455	.....	39, 159, 250, 455
Merritt, P. L., Identification of		Mineralogical Society of South-	
jade by x-rays.....	497	ern California.....	39, 122, 200, 250
Metamorphism produced by		$Mn_2SiO_4$ and $Ca_2SiO_4$ , mix-	
combustion of hydrocar-		crystals of (Greer).....	135
bons in Tertiary sediments		Monazite colored by carbon,	
of S. W. Persia. (McLin-		from Nipissing district,	
tock).....	455	Ont. (Ellsworth).....	19
Meteoric stone from Suwahib,		Montmorillonite or smectite	

as constituents of fuller's earth and bentonite. (Kerr)	192
Mordenite-ptilolite group; clinoptilolite, a new species. (Schaller)	128
Morey, G. W. and Tunell, G., Correct and incorrect statements of crystallographic theory in current textbooks.....	365
——— Book review.....	404
Mosesite, new occurrence and x-ray study of. (Bird).....	541
Mourant, A. E.....	250
Multiple twins of diamond and sphalerite. (Palache).....	360
Murray, D. C.....	39
Natrolite and metanatrolite. (Hey).....	160
Negative crystal cavities of galena and their brine content. (Buerger).....	228
New mineral names.....	251, 495
New York Mineralogical Club..	407
Nininger, H. H., Beardsley meteorite.....	563
——— Metallic meteorite from Ogallala, Nebr.....	221
——— Springwater meteorite.	396
Noselite and hatiyne, chemical composition of. (Barth) ...	466
Oxyhornblende. (Winchell) ..	114, 472
Pabst, A., Charles-Francois du Fay, pioneer in crystal optics.....	569
——— Book review.....	539
Palache, C., Biographical notice of W. S. Andrews.....	78
——— Multiple twins of diamond and sphalerite.....	360
——— The largest crystal.....	362
——— Zunyite from Guatemala.....	117, 304
——— and Foshag, W. F., Chemical nature of joa-	
quinite.....	114, 308
——— and Gonyer, F. A., Babylonite.....	114, 295
——— New iron meteorites from Chile and Texas.....	357
Pallasite, new, from central Australia.....	159
Parry, J.....	455
Peacock, M. A., Calaverite and the law of complication....	317
Perthites. (Alling).....	43
Petrographic succession of Tertiary igneous rocks in Oregon. (Hodge).....	116
Petrography and petrology. (Grout) [Book review.]....	494
Philadelphia Mineralogical Society.....	38, 121, 122, 200, 249, 408, 538, 539
Phillips, A. H., Isomorphous substitution of elements in minerals.....	85
Phillips, F. C.....	39
Pickeringite, occurrence in Alberta. (Rutherford).....	401
Piedmontite, new occurrences in California. (Mayo)...	117, 238
Piperine as immersion media in sedimentary petrography. (Martens).....	198
Platinum concentrates from Transvaal. (Bannister)....	455
Poitevin, E., Preliminary note on ashtonite.....	120
Powers, H. A., Lavas of Modoc Lava-bed quadrangle, Calif.	253
Prospecting for gold. (Idriess) [Book review.].....	573
Psilomelane and wad, x-ray study of. (Ramsdell).....	143
Ptilolite from Utah. (Schaller) ..	125
Pumpellyite from California. (Irving, Vonsen, Gonyer) ..	338
Pyrite and marcasite, distinction in nodular growths. (Bannister).....	250
Pyrrhotite inclusions in sphalerite. (Shenon) .....	514

Quartz-diopside-garnet veinlets. (Goodspeed, Coombs)	554	— Memorial of A. S. Eakle.....	94
Ramdohr, P. and Schneiderhöhn H., Erzmikroskopischen Bestimmungstafeln. [Book review] .....	83	— Mordenite-ptilolite group; clinoptilolite, a new species.....	128
— Lehrbuch der Erzmikroskopie. [Book review]. . . . .	79	— Ptilolite from Utah.....	125
Ramsdell, L. S., X-ray study of psilomelane and wad.....	143	— Refractive indices of bloedite.....	530
Reed, J. C. and Gilluly, J., Heavy minerals of plutonic rocks of eastern Oregon... . . . .	201	— Book review.....	123
Rhodonite, optical and chemical data.....	13	— and Fairchild, J. G., Bavenite, a beryllium mineral, pseudomorphous after beryl.....	114, 409
Richarz, S., Grünerite from Lake Superior region.....	437	— and Larsen, W. T., Serendibite from Warren Co., N. Y., and its paragenesis..	457
Rogers, A. F., Euhedral gold crystals from California... . . . .	115	Schneiderhöhn, H. and Ramdohr, P., Erzmikroskopischen Bestimmungstafeln. [Book review]. . . . .	83
— Linear projection in geometrical crystallography... . . . .	113	— Lehrbuch der Erzmikroskopie. [Book review]. . . . .	79
— Sanbornite, a new barium silicate mineral from Mariposa Co., Calif. . . . .	117, 161	Schoep, A. . . . .	496
Rosenkrans, R. R., Occurrence of native sulfur in Center Co., Penna.....	248	Schwartz, G. M., Synthetic minerals for polished surface study.....	478
Rosickyite. (Sekanina).....	251	Scorodite from Japan. (Ito, Shiga).....	39
Ross, C. S. and Henderson, E. P., Variations in optical properties and composition in anthophyllite series.....	114	Sekanina, J. . . . .	251
— and Kerr, P. F., Manganese minerals of a vein near Bald Knob, N. Car....	1	Serendibite, Warren Co., N. Y., and its paragenesis. (Larsen, Schaller).....	457
Rutherford, R. L., Occurrence of Pickeringite in Alberta..	401	Shand, S. J. The study of rocks. [Book review]. . . . .	40
Sanbornite, a new barium silicate from Mariposa Co., Calif. (Rogers).....	117, 161	Shenon, P. J., Chalcopyrite and pyrite inclusions in sphalerite .....	514
Schadler, J. . . . .	251	Shift of plane of projection in gnomonic projection. (Wright).....	423
Schairer, J. F., Minerals of Connecticut. [Book review]. . . . .	200	Shiga, T. . . . .	39
Schaller, W. T., Chemical composition of cuprotungstate..	234	Short, M. W. Book reviews.....	79, 83
		Siderolite from west Australia. (Simpson, Murray).....	39
		Simple determinative mineralogy. (Beringer) [Book review]. . . . .	494
		Simpson, E. S. . . . .	39, 495

<b>Smectite-montmorillonite. (Kerr)</b>	192	<b>Tourmaline. (Winchell)</b> .....	114, 4/2
Smith, W. Campbell.....	39	<b>Tourmaline, authigenic, in</b>	
Snow crystals. (Bentley, Humphreys) [Book review].	123	<b>Oriskany sandstone. (Stow)</b> .....	150
Spencer, L. J.....	159	<b>Tunell, G. and Morey, G. W.,</b>	
Spessartite, optical and chemical data.....	16	<b>Correct and incorrect statements of crystallographic theory in current textbooks.</b> .....	365
<b>Sphalerite twins, multiple. (Palache)</b> .....	360	—— Book review.....	404
Spherulitic rhyolites of Jersey. (Mourant).....	250	<b>Uncomphagrite of Iron Hill, Colorado, deuterian and later alterations of. (Larsen, Gornason)</b> .....	343
Spinel, analysis.....	464	<b>Van Horn, F. R., Spodumene-bearing pegmatite from Black Hills, S. Dak. (Van Horn)</b> .....	115
Spodumene-bearing pegmatite from Black Hills, S. Dak. (Van Horn).....	115	—— Book review.....	40
<b>Springwater meteorite. (Nininger)</b> .....	396	<b>Vhay, J. S. and Williamson, A. T., Preparation of thallous formate.</b> .....	560
Stevens, E. H. and Svatik, J., Artificial thermonatrite....	538	<b>Vonsen, M., Irving, J. and Gonyer, F. A., Pumpellyite from California.</b> .....	338
<b>Stow, M. H., Authigenic tourmaline in Oriskany sandstone.</b> .....	150	<b>Wad and psilomelane, x-ray study of. (Ramsdell)</b> .....	143
Study of rocks. (Shand) [Book review].	40	<b>Walcott, A. J. Book review</b> .....	124
Sulphur, native, in Center Co., Penna. (Rosenkrans).....	248	<b>Walker, F.</b> .....	250
Sussexite .....	509	<b>Weidman, S. Miami-Picher zinc-lead district. [Book review]</b> .....	573
Svatik, J. and Stevens, E. H., Artificial thermonatrite....	538	<b>West, C. D., Structure of dehydrated brucite.</b> .....	316
<b>Synthetic minerals for polished surface study. (Schwartz)</b> .....	478	<b>Westman, J.</b> .....	495
Tarr, W. A., Barite vein cutting granite in S. E. Missouri.....	115, 443	<b>Williams, A. F.</b> .....	455
Tellurium, native from Silver City, N. Mex. (Ballmer) .....	491	<b>Williamson, A. T. and Vhay, J. S., Preparation of thallous formate.</b> .....	560
Tephroite, optical data and analysis.....	5	<b>Winchell, A. N., Ferrotremolite, oxyhornblende and tourmaline.</b> .....	114, 472
Textbook of mineralogy. (Dana-Ford) [Book review].	539	—— <b>The lepidolite system</b> ... .	551
<b>Thallous formate, preparation of. (Vhay, Williamson)</b> ....	560	—— <b>Microscopic characters of artificial inorganic solid substances or artificial minerals. [Book review]</b> .....	404
Thermonatrite, artificial. (Svatik, Stevens).....	538	—— Book review.....	456
Tickell, F. G., Examination of fragmental rocks. [Book review].	40		

Wischnewite. (Beljankin).....	252	X-ray identification of jade. (Merritt).....	497
Wright, F. E., Shift of plane of projection in gnomonic pro- jection.....	423	X-ray study of mosesite. (Bird) X-ray study of psilomelane and wad. (Ramsdell).....	541 143
—	455		
X-ray examination of chrome ores. (Clark, Ally).....	66	Zunyite from Quatemala. (Pal- ache).....	117, 304