

INDEX TO VOLUME 28

Leading articles are in **bold face** type; notes, abstracts and reviews are in ordinary type. Only minerals for which definite data are given are included in the index.

<p>Acanthite, crystallography of. (Ramsdell)..... 401</p> <p>Agricolite identical with eulytite. (Fron del)..... 536</p> <p>Alexander, L. T., with Faust, G. T., Hendricks, S. B., Insley, H. and McMurdie, H. F. Relationship of clay minerals hal- loysite and endellite..... 1</p> <p>Alkaline vitrophyre dike, Cape Neddick, Maine. (Haff)..... 426</p> <p>Amblygonite. (Palache, Richmond and Wolfe)..... 39</p> <p>Amphiboles, calciferous, graphical representation of. (Hallimond) 65</p> <p>Andalusite pegmatites from River- side Co., Calif. (Webb)..... 581</p> <p>Anderson, B. W. Gem Testing for Jewellers. Book review..... 60</p> <p>Apatite..... 217</p> <p>Arsenobismite..... 538-9</p> <p>Atelestite..... 538-9</p> <p>Autoradiography of minerals. (Goodman, Thompson)..... 456</p> <p>Ball, S. H. Diamond production... 141</p> <p>Bannister, F. A..... 62</p> <p>Barksdale, J. D. with Ingerson, E. Iridescent garnet from Ade- laide mining district, Nevada... 174, 303</p> <p>Basobismutite..... 531</p> <p>Bateman, A. M. Economic mineral deposits. Book review..... 340</p> <p>Beyerite, a new species. (Fron del). 532</p> <p>Bismite (x-ray data)..... 522</p> <p>Bismoclite, new data. (Fron del)... 537</p> <p>Bismuth arsenates. (Fron del)..... 536</p> <p>Bismuth hydroxide..... 526</p> <p>Bismuth oxides and carbonates, mineralogy of. (Fron del)..... 521</p> <p>Bismutite, bismutosphaerite..... 527</p> <p>Bixbyite of low iron content. (Gruner)..... 174</p>	<p>Bixbyite-sitaparite-partridgeite. (deVilliers, Fleischer)..... 468</p> <p>Bobierrite, $Mg_3(PO_4)_2 \cdot 8H_2O$, unique occurrence of. (Gruner, Stauffer)..... 339</p> <p>Boksputite..... 532</p> <p>Bredig, M. A. Phase relations in the system calcium orthosili- cate-orthophosphate..... 594</p> <p>Brushite..... 218</p> <p>Buddington, A. F. Petrological con- cepts and the interior of the earth..... 119</p> <p>Buerger, M. J., Buerger, N. W. and Chesley, F. G. Apparatus for powder photographs at con- trolled elevated temperatures. 285</p> <p>Bulletin of the Geological Society of America; papers of interest to mineralogists..... 211, 613</p> <p>Calcium orthosilicate-orthophos- phate system, phase relations in. (Bredig)..... 594</p> <p>Calcium phosphates in insular phosphate rock, mineralogy of. (Fron del)..... 215</p> <p>Callainite..... 64</p> <p>Campbell, I. Book review..... 58</p> <p>Chapman, C. A. Large magnesia- rich triphylite crystals in peg- matite..... 90</p> <p>Chesley, F. G. and Buerger, N. W. with Buerger, M. J. Apparatus for powder photographs at con- trolled elevated temperatures. 285</p> <p>Chloanthite..... 63</p> <p>Clay minerals halloysite and endel- lite. (Alexander, Faust, Hen- dricks, Insley, McMurdie)... 1</p> <p>Coeruleolactite..... 64</p> <p>Collophane..... 219</p> <p>Conventional orientation of crys- tals, rules for. (Donnay).... 313, 470</p>
---	--

- Cordierite from a glass furnace.**
Cordierite from Horns Nek, Transvaal. (Shand)..... 391
- Coronadite, cryptomelane and hollandite. (Gruner)**..... 497
- Coronadite..... 615
- Cryptomelane (psilomelane), hollandite and coronadite, chemical relationship of. (Gruner)**..... 497
- Cryptomelane..... 615
- Crystal models, making. (Fisher)... 54
- Denning, R. M. Aluminum-bearing scorodite from Hobart Butte, Oregon..... 55
- de Villiers, J. E. Bixbyite-sitaparite-partridgeite..... 468
- **Gamagarite, a new vanadium mineral from the Postmasburg manganese deposits.**..... 329
- **Preliminary description of the new mineral partridgeite**... 336
- Diamond symposium:**
- Introduction. (Kraus)..... 141
- Diamond production. (Ball).... 141
- Gem diamonds and their present trends. (Kaplan)..... 143
- Diamond dies. (Shayne)..... 145
- Diamond set tools. (Slawson)... 148
- Recent development of bonded diamond wheels. (Klein)..... 149
- Discredited species..... 64, 214
- Dodge, D. V. Identification of opaque minerals by electrochemical methods**..... 103
- Donnay, J. D. H. Resetting a triclinic unit cell in the conventional orientation**..... 507
- **Rules for the conventional orientation of crystals**.... 313, 470
- Dussertite (McConnell)..... 63
- Dutton, C. E. Book review..... 340
- Economic Mineral Deposits. (Bateman) Book review..... 340
- Elements, factors influencing distribution of. (Pannell)..... 605
- Endellite and halloysite, relationship of. (Alexander, Faust, Hendricks, Insley, McMurdie)** 1
- Epiglaubite..... 220
- Eulytite, agricolite identical with.. 536
- Fairbairn, H. W. Gelatin coated slides for refractive index immersion mounts**..... 396
- **Notes on Felker Di-Met rock saw**..... 398
- **Structural petrology of deformed rocks. Book review**... 115
- **X-ray petrology of fine-grained foliated rocks**..... 246
- Faust, G. T., Hendricks, S. B., Insley, H. and McMurdie, H. F. with Alexander, L. T. Clay minerals halloysite and endellite**..... 1
- Faust, G. T., Hendricks, S. B., Reynolds, D. S. with Mitchell, L. Hydroxylapatite**..... 356
- Felker Di-Met rock saw. (Fairbairn)..... 398
- Ferguson, R. B. and Peacock, M. A. Measurement of the three principal indices of refraction in micaceous minerals by immersion on a tilting stage** 563
- Fisher, D. J. Making crystal models..... 54
- **Measuring linear structures on steep-dipping surfaces**.... 204
- Fleischer, M. Bixbyite-sitaparite-partridgeite..... 469
- Fron del, C. Mineralogy of calcium phosphates in insular phosphate rock**..... 215
- **Mineralogy of the oxides and carbonates of bismuth**... 521
- **New data on agricolite, bismoclite, koechlinite and the bismuth arsenates**..... 536
- Gamagarite, a new vanadium mineral from the Postmasburg manganese deposits. (de Villiers)**..... 329
- Garnet, iridescent, from Adelaide Mining District, Nevada. (Ingerson, Barksdale)**..... 174, 303
- Garnets, large and small, from Fort Wrangell, Alaska. (Pabst)** 233

- Gelatin coated slides for refractive index immersion mounts. (Fairbairn)..... 396
- Gem Testing for Jewellers. (Anderson) Book review..... 60
- Gerasimovsky, V. E..... 282-3
- Gillespite, $BaFeSi_4O_{10}$, crystal structure of. (Pabst)..... 372
- Glaubapatite..... 221
- Glauconite, calculation of molecular formulae for. (Harvey).... 541
- Godlevsky, M. N..... 282
- Gold-nickel mineralization at Alistos, Sinaloa, Mexico. (Krieger, Hagner)..... 257
- Goodman, C. and Thompson, G. A. Autoradiography of minerals.. 456
- Gordon, S. G..... 61
- Gorshkov, G. S..... 282
- Granitic pegmatites, genesis of. (Uspensky)..... 437
- Gruner, J. W. Chemical relationship of cryptomelane (psilomelane), hollandite and coronadite..... 497
- and Stauffer, C. R. Unique occurrence of bobierrite..... 339
- Grunerite in Western Australia. (Miles)..... 25
- Haff, J. C. Alkaline vitrophyre dike, Cape Neddick, Maine..... 426
- Hagner, A. F. with Krieger, P. Gold-nickel mineralization at Alistos, Sinaloa, Mexico.... 257
- Hallimond, A. F. Graphical representation of calciferous amphiboles..... 65
- Halloysite and endellite, relationship of. (Alexander, Faust, Hendricks, Insley, McMurdie)..... 1
- Hanušite. (Kašpar)..... 544
- Harvey, C. O. Calculation of molecular formulae for glauconite..... 541
- Hatch, R. A. Phase equilibrium in the system $Li_2O \cdot Al_2O_3 \cdot SiO_2$.. 471
- Hendricks, S. B., Faust, G. T., Insley, H., McMurdie, H. F. with Alexander, L. T. Halloysite and endellite..... 1
- Hendricks, S. B., Reynolds, D. S., Faust, G. T. with Mitchell, L. Hydroxylapatite..... 356
- Herzenberg, R..... 213
- Hey, M. H..... 62
- Hochschildite. (Herzenberg)..... 213
- Hollandite, cryptomelane and coronadite. (Gruner)..... 497
- Hollandite..... 615
- Holmes, R. J..... 63
- Honess, A. P., memorial of. (Myers)..... 151
- Hunt, W. F. Book reviews.. 117, 213, 614
- Hureaulite, crystallography of. (Murdoch)..... 19
- Hydrobismutite..... 531
- Hydroxylapatite, mineralogy and genesis of. (Mitchell, Faust, Hendricks, Reynolds)..... 356
- Ikornikova, N. J..... 282
- Illite..... 470
- Inderborite (Gorshkov)..... 282
- Ingerson, E. and Barksdale, J. D. Iridescent garnet from Adelaide Mining District, Nevada. 174, 303
- and Morey, G. W. Preparation and properties of some compounds in the system $H_2O-Na_2O-P_2O_5$ 448
- and Tuttle, O. F. Graph for determining angle and direction of pitch of lineations in the field..... 209
- Book review..... 115
- Insley, H., Faust, G. T., Hendricks, S. B., McMurdie, H. F. with Alexander, L. T. Halloysite and endellite..... 1
- James, R. W. X-Ray Crystallography. Book review..... 61
- Kalsilite. (Bannister, Hey)..... 62
- Kaplan, L. Gem diamonds and their present trends..... 143

- Kašpar, J. V. 544
- Kauffman, A. J., Jr. Fibrous sepiolite from Yavapai Co., Ariz.** 512
- Kennard, T. G., with Merriam R. Unidentified mineral in quartz-basalt 602
- Klein, A. A. Recent development of bonded diamond wheels** 149
- Koehchlinite, new data. (Fronzel) . . 537
- Koenigsberger, J., Parker, R. L. with Niggli, P. Die Mineralien der Schweizeralpen. Book review 58
- Kraus, E. H. Diamond symposium—Introductory statement** 141
- Book review 60
- Kremers, H. E. with Quirke, T. T. Pegmatite crystallization** 571
- Krieger, P. and Hagner, A. F. Gold-nickel mineralization at Alistos, Sinaloa, Mexico** 257
- Lassen Volcanic National Park quartz basalt, unidentified mineral in. (Merriam, Kennard) 602
- Linear structures, measuring. (Fisher) 204
- Lination, determining angle and pitch of, in the field. (Ingerson, Tuttle) 209
- Lithiophorite 615
- Li₂O·Al₂O₃·SiO₂ system, phase equilibrium in. (Hatch)** 471
- Lovering, T. S. Minerals in World Affairs. Book Review 614
- Martinite 221
- McConnell, D. 63, 64
- McMurdie, H. F., Faust, G. T., Hendricks, S. B., Insley, H. with Alexander, L. T. Halloysite and endellite** 1
- Measurement of Geologic time, report of committee on 117
- Merriam, R., and Kennard, T. G., Unidentified mineral in quartz basalt of Lassen Volcanic National Park 602
- Meta-alunogen. (Gordon) 61
- Meta-brushite 223
- Metahydroboracite = inderborite . . 282
- Metaloparite. (Gerasimovsky) 283
- Merkulova, G. W. 62
- Meyer, C. F. Book review 400
- Micaceous minerals, measurement of three principal indices of refraction of, by immersion on a tilting stage. (Ferguson, Peacock)** 563
- Michener, C. E. and Peacock, M. A. Parkerite from Sudbury, Ontario; redefinition of the species** 343
- Miles, K. R. Grunerite in Western Australia** 25
- Mineral resources of Africa. (Postel) Book review 614
- Mineralien der Schweizeralpen. (Niggli, Koenigsberger, Parker) Book review 58
- Mineralogical Society of America. Election of officers and fellows . . 175
- List of correspondents, fellows, members and subscribers 182
- List of former officers and meeting places 180
- Nominations for 1944 470
- Proceedings for 1942 174
- Minerals—discredited species 64
- Minerals—new data 63, 615
- Minerals in World Affairs. (Lovering) Book review 614
- Minerals of New Mexico. (Northrop) Book review 117
- Mitchell, L., Faust, G. T., Hendricks, S. B. and Reynolds, D. S. Mineralogy and genesis of hydroxylapatite** 356
- Monetite 223
- Monite 224
- Morey, G. W. with Ingerson, E. Some compounds in the system H₂O-Na₂O-P₂O₅** 448
- Murata, K. J. Internal structure of silicate minerals that gelatinize with acid** 545
- Murdock, J. Crystallography of hureaulite** 19
- Myers, W. M. Memorial of A. P.**

- Honess**..... 151
 ——— Book review..... 614
- Naboko, S. I..... 283
- Nauruite..... 224
- New Minerals described: beyerite
 532, endellite 1, gamagarite
 329, partridgeite 336, sillenite
 524.
- New mineral names.....
 61, 213, 282, 544, 615
- New York Mineralogical Club, Inc.
 341, 616
- Niggli, P., Koenigsberger, J. and
 Parker, R. L. Die Mineralien
 der Schweizeralpen. Book re-
 view..... 58
- Nordite. (Gerasimovsky)..... 282
- Normannite..... 531
- Northrop, S. A. Minerals of New
 Mexico. Book review..... 117
- Opaque minerals, identification by
 electrochemical methods.
 (Dodge)**..... 103
- Ornithite..... 225
- Pabst, A. Crystal structure of gil-
 lespite, $BaFeSi_4O_{10}$** 372
 ——— Large and small garnets
 from Fort Wrangell, Alaska... 233
- Palache, C., Richmond, W. E. and
 Wolfe, C. W. Amblygonite.... 39
- Pannell, J. H. Factors influencing
 distribution of elements..... 605
- Papers published in Bulletin of
 G. S. A. of interest to mineralog-
 ists..... 211, 613
- Parker, R. L. and Koenigsberger,
 J., with Niggli, P. Die Min-
 eralien der Schweizeralpen.
 Book review..... 58
- Parkerite ($Ni_3Bi_2S_2$) from Sudbury,
 Ontario. Redefinition of the
 species. (Michener, Peacock). 343
- Parsons, A. L. Memorial of T. L.
 Walker..... 167
- Partridgeite, preliminary descrip-
 tion of. (de Villiers)..... 336
- Peacock, M. A. with Ferguson,
 R. B. Measurement of the
 principal indices of refraction
 of micaceous minerals on a
 tilting stage..... 563
 ——— with Michener, C. E.
 Parkerite from Sudbury, Onta-
 rio; redefinition of the spe-
 cies..... 343
 ——— Book review..... 61
 175
- Pegmatite crystallization. (Quirke,
 Kremers)..... 571
- Pegmatites, granitic, genesis of.
 (Uspensky)..... 437
- Petrological concepts and the inte-
 rior of the earth. (Buddington)** 119
- Philadelphia Mineralogical Society
 117, 399, 543-4
- Postel, A. W. Mineral resources of
 Africa. Book review..... 614
- Pratt, J. H., memorial of. (Stuckey)** 155
- Prism and lens making. (Twyman)
 Book review..... 400
- Pseudowavellite..... 64
- Pyroclasite..... 225
- Pyroguanite..... 226
- Pyrophosphorite..... 226
- Pyrostilpnite, crystallography of.
 (Peacock)..... 175
- Quinn, A. Settling of heavy miner-
 als in granodiorite dike at
 Bradford, R. I.**..... 272
- Quirke, T. T. and Kremers, H. E.**
Pegmatite crystallization.... 571
- Ramsdell, L. S. Crystallography of
 acanthite**..... 401
- Ramsdellite. (Fleischer, Richmond) 615
- Ranciéite..... 615
- Reynolds, D. S., Faust, G. T.,
 Hendricks, S. B. with Mitchell,
 L. Hydroxylapatite**..... 356
- Richmond, W. E. and Wolfe, C. W.
 with Palache, C. Amblygonite. 39
 615
- Roberts, J. K. Annotated bibliog-
 raphy of Virginia. Book review 213
- Safflorite..... 63

- Scapolite, sodic, occurrence at Falls of French Creek, Pa. (Tomlinson)..... 110
- Scorodite, aluminum-bearing, from Hobart Butte, Oregon. (Denning)..... 55
- Sepiolite, fibrous, from Yavapai Co., Ariz. (Kauffman)..... 512
- Settling of heavy minerals in granodiorite dike at Bradford, R. I. (Quinn)..... 272
- Shand, S. J. Cordierite from a glass furnace; Cordierite from Horns Nek, Transvaal..... 391
- Shayne, A. Diamond Dies..... 145
- Shilkinite. (Merkulova)..... 62
- Silicate minerals that gelatinize with acid, internal structure of. (Murata)..... 545
- Sillenite, new species. (Fron del)..... 524
- Sitaparite (analysis)..... 468
- Skutterudite, smaltite, chloanthite, safflorite. (Holmes)..... 63
- Slawson, C. B. Diamond set tools.. 148
- Smaltite..... 63
- Sodium phosphate-water system. (Ingerson, Morey)..... 448
- Sombrerite..... 227
- Stauffer, C. R., with Gruner, J. W. Unique occurrence of bobierite..... 339
- Stevenson, L. S..... 175
- Stoffertite..... 227
- Structural petrology of deformed rocks. (Fairbairn) Book review 115
- Stuckey, J. L. Memorial of J. H. Pratt..... 155
- System calcium orthosilicate-orthophosphate, phase relations in. (Bredig)..... 594
- System $H_2O-Na_2O-P_2O_5$, preparation and properties of some compounds in. (Ingerson, Morey)..... 448
- System $Li_2O \cdot Al_2O_3 \cdot SiO_2$, phase equilibrium in. (Hatch)..... 471
- Thompson, G. A., with Goodman, C. Autoradiography of minerals..... 456
- Tomlinson, W. H. Occurrence of sodic scapolite at Falls of French Creek, Pa..... 110
- Triclinic unit cell in conventional orientation, resetting of. (Donnay)..... 507**
- Tridymite latite from Soda Creek, British Columbia. (Stevenson) 175
- Triphylite, large magnesia-rich crystals in pegmatite. (Chapman)..... 90
- Tuttle, O. F. and Ingerson, E. Determining angle and direction of pitch of lineations, graph for 209
- Twyman, F., Prism and lens making. Book review..... 400
- Uspensky, N. M. Genesis of granitic pegmatites..... 437
- Virginia, Geological bibliography of. (Roberts) Book review.... 213
- Walker, T. L., memorial of. (Parsons)..... 167
- Waltherite..... 524-534
- Webb, R. W. Two andalusite pegmatites from Riverside Co., Calif..... 581
- White, W. C. Graphical interpretation of x-ray diffraction data using polar coordinates..... 99
- Whitlockite, chemical, optical and x-ray data..... 227
- Wolfe, C. W. and Richmond, W. E. with Palache, C. Amblygonite. 39
- X-ray Crystallography. (James) Book-review..... 61
- X-ray diffraction data, graphical interpretation of, using polar coordinates. (White)..... 99
- X-ray petrology of some fine grained foliated rocks. (Fairbairn)..... 246
- X-ray powder photographs at controlled elevated temperatures. (Buerger, Buerger, Chesley).... 285
- Zepharovichite = wavellite..... 64
- Zeugite..... 231