

INDEX TO VOL. XVI.

(See also 'List of New Mineral Names', p. 352.)

- Absorption-brushes, 11.
 — -figures, 11.
 — -polarization, 8.
 Allophane from Co. Galway, 278.
 Ammonium magnesium chromate, 170.
 Anatase from Binn, Switzerland, 290.
 — from Cornwall, 49.
 Angles, graphical determination, 826.
 Ankerite in coal, 219.
 Apatite from Lundy Island, 299.
 Apparatus, lapidary's, 317.
 — universal, 100.
 Arizona, mineralogy of, 73.
 Artificial crystals of calcite, 845.
 Autunite from Cornwall, 50.
 Axial-angle apparatus, 104.
- Balance-sheet, xxv, xxxiii, xli.
 BARET (C.), obituary, 156.
 BABKEE (T. V.), inosite, potassium nitrate, and urea nitrate, 207.
 — mercuric iodide, xxxii.
 Barytes in coal, 222.
 — optical extinction, 232.
 BAYLEY (W. S.), Crystallography (review), 74.
 BELL (R.), elected member, xxxxv.
 BEMMELLEN (J. M. VAN), obituary, 159.
 Bertrandite from Cornwall, 47.
 Beryl from Lundy Island, 298.
 Binnenthal minerals, xxvii, xxxi, xxxv, 121, 197, 282, 287, 290, 348.
 BLAKE (G. S.), zirkelite from Ceylon, 809.
 BLAKE (W. P.), obituary, 157.
 BORLASE (W.), 836.
 BOWMAN (H. L.), bertrandite from Cornwall, 47.
 — models to illustrate theories of crystal structure, 51.
 — & CLARKE (H. E.), Dokachi meteorite, 35.
 BRAUNS (R.), The Mineral Kingdom (review), 254, 307.
 — Die kristallinen Schiefer des Laacher Seegebietes (review), 167.
- Breccias, 124.
 Brecciation of mineral-veins, 124.
 British minerals, 30, 47, 55, 63, 125, 217, 219, 264, 272, 294, 306, 331.
 BRUSH (G. J.), obituary, 379.
 Büschel, 11.
 Building stones, 165.
 BURKITT (M.), elected member, xxx.
 BUTLER (F. H.), natural history of kaolinite, 63.
 — brecciation of mineral-veins, 124.
 Bye-laws, vii.
- Caesium magnesium chromate, 182.
 Calamine ($ZnCO_3$) from Flintshire, 339.
 Calcite in coal, 221.
 — from a water-tank, 845.
 — from New York, 166.
 CALDERÓN (S.), Los Minerales de España (review), 72.
 — obituary, 247.
 Carbonado, large mass, 145, 394.
 Cassiterite (wood-tin), 30.
 — from Malay, 118, 302.
 Ceylon, zirkelite, 309.
 CHAPMAN (M. B.), analysis by, 845.
 Chemical analysis of meteorites, 38.
 — — of rocks, 75.
 China-clay, 67.
 Chromates of alkalis and magnesium, 169.
 CHRUSTSCHOFF (C. DE), obituary, 380.
 CLARE (R. W.), Petrographic Methods (review), 304.
 CLARKE (F. W.), elected hon. member, xxxviii.
 — Data of Geochemistry (review), 250.
 CLARKE (H. E.) & BOWMAN (H. L.), Dokachi meteorite, 35.
 Classification of minerals, 333.
 Clinohedral class, 87.
 Coal, ankerite in, 219.
 Colemanite (neocolemanite), 289.
 Collections, 251, 252, 381, 388.
 COLLINGBRIDGE (H.), elected member, xxxviii.

- COLLINGEIDGE (H.), determination of optic axial angles in thin-section, 848.
- COLLINS (J. H.), wood-tin, 80.
- COON (J. M.), china-clay, xxiii.
- Copalite from Richmond, 388.
- Cornish minerals, 80, 47, 55, 68, 125, 217.
- COSTA (E. M. DA), 386.
- CROOK (T.), pleochroism and idio-phany, 1.
- electrostatic separation of minerals, 109.
 - ankerite in coal, 219.
 - & JOHNSTONE (S. J.), strüverite from Malay, 224.
 - Examination of Loose Sediments (review), 885.
 - Crush-breccias, 126.
 - Crystal groups, 254.
 - structure, 254.
 - — models, 51.
 - Crystalline schists, 167.
 - Crystals, growth and solution of, 74.
- Dana's Manual of Mineralogy (review), 804.
- Determinative tables, 166.
- Deutsche Mineralogische Gesellschaft, 249.
- Diagram, total-reflection, 236.
- Diamond, crystallogr., 164.
- Diamonds, large, from S. Africa, 140.
- Dinner after meetings, 884.
- Diopside from El Nakhla meteoorite, 276.
- DOMLTER (C.), Handbuch der Mineralchemie (review), 161.
- Dokachi meteorite, 85.
- DRUGMAN (J.), elected member, xxii.
- quartz twinned on the primary rhombohedron, 112.
- Dufrenoysite, 284.
- Dundasite from Derbyshire and Co. Galway, 272.
- DUPARC (L.) & MONNIER (A.), Traité de Minéralog. et Pétrogr. (review), 807.
- Editorial committee, xxxviii.
- El Nakhla meteorite, 274.
- Electrostatic separation of minerals, 109.
- EMMONS (S. F.), obituary, 157.
- Epoptic figures, 28.
- EPPLER (A.), Die Schmuck- und Edelsteine (review), 806.
- Eutropic series, 195.
- 'Excelsior' diamond, 140.
- Exchanges of publications, xx.
- Extinction-angles, graphic method for determining, 232.
- Fedorov's setting, 208.
- Felspar from Lundy Island, 299.
- Fermorite, 84.
- FERSMANN (A. von) & GOLDSCHMIDT (V.), Der Diamant (review), 164.
- Fissuro-breccias, 127.
- FLEISCHMANN (F. N. A.), elected trustee, xxxi.
- FLETCHER (L.), 251.
- portrait of, xxiv.
- FLETCHER (M.), artificially-produced crystals of gypsum, 187.
- Flintshire minerals, 888.
- Fluor-spar from Cornwall, 49, 60.
- from Flintshire, 889.
 - from Lundy Island, 299.
- FOOT (W. E.), Dana's Manual of Mineralogy (review), 804.
- Fortschritte der Mineralogie, 249.
- France, mineralogy of, 71.
- FREIMEL (G.), Cristallographie (review), 163.
- Galena in coal, 221.
- GARDINER (C. R.), elected member, xxxi.
- Gemstones, 806, 886.
- Geochemistry, 250.
- Geological Society's collection, 888.
- German Mineralogical Society, 249.
- GOLDSCHMIDT (V.), elected hon. member, xxxii.
- jubilee, 884.
 - & FERSMANN (A. von), Der Diamant (review), 164.
- Goniometer, universal, 100.
- Granite of Lundy Island, 295.
- Graphic determination of extinction-angles, 232.
- — of angles and indices, 826.
 - — of optic axial angles, 848.
- 'Great white' diamond, 148.
- Greenockite from Derbyshire and Wanlockhead, 272.
- GROTH (P. von), 250.
- Physical Crystallography (review), 168.
- Growth of crystals, 167.
- and solution of crystals, 74.
- GUILD (F. N.), Mineralogy of Arizona (review), 73.
- GUNTHER (C. G.), Mining Geology (review), 805.
- GWINNELL (R. F.), calcite crystals from a water-tank, 345.
- Gypsum, artificial crystals, 187.
- temperature of optical uniaxiality, 257.

- Halite, growth of, 74.
HALL (T. C. F.), elected member, xxiv.
 — & **MCLINTOCK** (W. F. P.), topaz and beryl from Lundy Island, 294.
HALLIMOND (A. F.), elected member, xxxv.
HARKER (A.), tables for calculation of rock-analyses, 75.
HATCH (F. H.) & **RASTALL** (R. H.), Petrology (review), 385.
 Hatchite, 287.
HATSCHEK (E.), growth of crystals in gels, xxxii.
HENSON (F.), elected member, xxii.
HESLOP (M. K.), elected member, xxii.
HOFF (J. H. VAN 't), obituary, 160.
 Houppes, 11.
HOUSTON (R. S.), Mineralogy of Renfrewshire (review), 306.
HUNT (W. F.) & **KRAUS** (E. H.), Determinative Tables (review), 166.
HUSSAK (E.), obituary, 247.
HUTCHINSON (A.), universal goniometer, 100.
 — total-reflection diagram, 286.
 — identity of neocoalemanite with colemanite, 239.
 — & **SMITH** (W. C.), sericite from North Wales: penninite and labradorite from Ireland, 264.
 — & **TUTTON** (A. E. H.), temperature of optical uniaxiality in gypsum, 257.
IDDINGS (J. P.), Rock Minerals (review), 164.
 Idiocyclophany, 28.
 Idiophany and pleochroism, 1.
 Ilmenite from Binn, Switzerland, 343.
 'Imperial' diamond, 143.
 Indices, graphical determination, 326.
 Inosite, 207.
 International Catalogue of Scientific Literature, xxviii.
 Iodate of lead, 82.
 Irish minerals, 264, 272, 388.
 Isomorphous sulphates and chromates, 169.

JACKSON (B. H.), Optical Properties of Crystals (review), 163.
JOHNSEN (A.), Wachstum und Auflösung der Kristalle, 74.
JOHNSTONE (S. J.) & **CROOK** (T.), struvite from Malay, 224.
 Journal to members, xxxv.
 'Jubilee' diamond, 142.

 Kaolinite, origin of, 67.
 — from Derbyshire, 70.
 — from Glamorganshire, 63.
 Kaolinization, 65, 300.
KHRUSHCHOV (K. D.), obituary, 380.
KOENIG (G. A.), obituary, 380.
 Kohlrausch total-reflectometer, 105.
KOTÖ (B.), elected member, xxxviii.
KRAUS (E. H.) & **HUNT** (W. F.), Determinative Tables (review), 166.
KREUTZ (F. F. X.), obituary, 158.

 Labradorite from Co. Down, 267.
LACROIX (A.), *Minéralogie de la France* (review), 71.
 Lapidary's apparatus, 817.
LEO (M.), Anlauffarben (review), 78.
LEVY (A. M.), obituary, 248.
LEWIS (W. J.), rathite and its variety wiltshireite, 197.
 — ilmenite from Binn, 343.
 — liveingite (?), xxxi.
LIESEGANG (R. E.), Geological Diffusions (review), 386.
 Light-figures, 80, 165.
LOCZKA (J.), obituary, 380.
LUEDECKE (O. P.), obituary, 158.

MCLINTOCK (W. F. P.), Guide to Collection of Gemstones (review), 386.
 — & **HALL** (T. C. F.), topaz and beryl from Lundy Island, 294.
MACNAIR (P.), study of rocks, 78.
 Magnetic cassiterite, 110, 118.
 Malay, minerals from, 110, 118, 224, 302.
MALLET (J. W.), obituary, 380.
MASKELYNE (N. S.), see Story-Maskelyne.
 Meetings, time of, 383.
 Members, list of, xi.
 Mendipite, 387.
 Meteorite, Dokachi, 35.
 — El Nakhla, 274.
 Mica, pseudo-absorption, 13.
 — pseudo-pleochroism, 7.
 — from Lundy Island, 299.
MICHEL-LEVY (A.), see Levy (A. M.).
 Microchemical tests, 78.
MIERS (Sir H. A.), 251.
 — elected trustee, xxviii.
 — The Growth of a Crystal (review), 167.
 Mineral chemistry, 161.
 Mineral-veins, brecciation of, 124.
 Mineralogisches Taschenbuch der Wiener Mineral. Gesell. (review,) 75.

- Minerals, new names, 352.
 Models of crystal structures, 51.
MONNIER (A.) & DUPARC (L.), *Traité de Minéralog. et Pétrogr.* (review), 307.
MORGAN (A. H.), elected member, xxxvi.
Moriogram, 326.
 Names, new mineral, 352.
 Natrolite from Cornwall, 218.
 Neocoolemanite = colemanite, 239.
 Nickel-iron from Dokachi meteorite, 41.
 Nitrogen sulphide, 97.
 Notes, 247, 379.
- Obituaries :—**
- BABET (C.), 156.
 - BEMMELLEN (J. M. VAN), 159.
 - BLAKE (W. P.), 157.
 - BRUSH (G. J.), 379.
 - CALDERÓN (S.), 247.
 - EMMONS (S. F.), 157.
 - HOFF (J. H. VAN 'T), 160.
 - HUSSAR (E.), 247.
 - KHRUSHCHOV (K. D.), 380.
 - KOENIG (G. A.), 380.
 - KREUTZ (F. F. X.), 158.
 - LÉVY (A. M.), 248.
 - LOCZKA (J.), 380.
 - LUEDERKE (O. P.), 158.
 - MALLET (J. W.), 380.
 - PETTERD (W. F.), 159.
 - PHILIPPI (E.), 159.
 - SCHULTÉN (A. B. DE), 381.
 - SPEZIA (G.), 248.
 - STORY-MASKELYNE (M. H. N.), 149.
 - TÖRNÉBOHM (A. E.), 248.
 - USSING (N. V.), 249.
 - WUETZ (H.), 160.
 - ZIRKEL (F.), 381.
- Olivine from El Nakhla meteorite, 277.
 Opaque minerals, 78.
 Optic axial angles, determination in thin-section, 348.
 Optical uniaxiality in gypsum, 257.
 Ores, tarnish on, 78.
- PENNANT (T.), collection, 381, 383.
 Penninite from Co. Galway, 266.
PETTERD (W. F.), obituary, 159.
 Phenacite from Cornwall, 55.
PHILIPPI (E.), obituary, 159.
PHILLIPS (A. H.), *Mineralogy* (review), 385.
 Phlogopite, pseudo-absorption, 18.
 Pleochroism and idiophany, 1.
 Pneumatolysis, 67.
 Point-systems, 51.
- Polarization-brushes, 11.
PONTOPPIDAN (E. L.), 386.
PORTER (M. W.) & TUTTON (A. E. H.), double chromates, 169.
 Potassium nitrate, 210.
 Precious stones, 306, 386.
 Prehnite from Cornwall, 217.
 President, office of, xxxv.
PRIOR (G. T.), 251.
 — El Nakhla meteoric stone, Egypt, 274.
 — & SMITH (G. F. H.), Schwartzembergite, 77.
 — — fermorite and tilasite from India, 84.
 Pseudo-absorption, 18.
 Pseudomorphs, 119, 339.
 Pseudo-pleochroism, 7.
 Publications, exchanges, xx.
 Pyromorphite from Flintshire, 339.
 Pyrrhotite, large crystal, 252.
- Quartz twins, 112.
 — from Lundy Island, 298.
- RASTALL (R. H.) & HATCH (F. H.),** Petrology (review), 385.
 Rathite, 121, 197.
 Rathite α , 121.
 Reflectometer, total-, 105.
 Refractometer, 107.
 — diagram, 236.
 'Reitz' diamond, 142.
 Report of Council, xxiii, xxix, xxxvii.
 Reviews of books, 71, 161, 258, 304, 385.
 Rhodochrosite from Shropshire, 338.
 Rock-analyses, 75.
 Rocks, study of, 76.
 — thin-sections, 317.
ROGERS (A. F.), elected member, xxxviii.
 — Study of Minerals (review), 305.
 Royal Society 250th anniversary, xxxii, 382.
 Rubidium magnesium chromate, 177.
RUSSELL (A.), phenacite in Cornwall, 55.
 — prehnite from Cornwall, 217.
 — dundasite from Derbyshire and Co. Galway, 272.
 — Shropshire minerals, xxxii.
 — Montgomeryshire minerals, xl.
 Russian minerals, 72.
- Sanidinite, 167.
SAVIGAS (G.), *Bibliography of N. Story-Maskelyne*, 152.
 Scandium in strüverite, 229.
SCHALLER (W. T.), elected member, xxxvi.

- Schists, 167.
 SCHULZÉN (A. B. DE), obituary, 381.
 Schwartzembergite, 77.
 SCRIVENOR (J. B.), cassiterite from Malay, 118.
 — strüverite in Perak, 302.
 Seligmannite, 282.
 Separation, electrostatic, 109.
 Sericite from North Wales, 264.
 Shot-tin, 31.
 SIMPSON (E. S.), elected member, xxxvi.
 SMITH (G. F. H.), crystalline form of nitrogen sulphide, 97.
 — anatase from Binn, Switzerland, 290.
 — apparatus for preparing thin-sections of rocks, 317.
 — graphical determination of angles and indices, 326.
 — & BLAKE (G. S.), zirkelite from Ceylon, 309.
 — & PRIOR (G. T.), Schwartzembergite, 77.
 — — fermorite and tilasite from India, 84.
 — & SOLLY (R. H.), hatchite, a new mineral, 287.
 SMITH (H. G.), elected member, xxviii.
 — graphic method for determining extinction-angles, 232.
 SMITH (W. C.), mineral collection of T. Pennant, 381.
 — & HUTCHINSON (A.), sericite from North Wales : penninite and labradorite from Ireland, 264.
 Societies, xx.
 Schnecke point-systems, 51.
 SOLLY (R. H.), rathite, rathite α , and wiltshireite, 121.
 — seligmannite and dufrenoysite, 282.
 — Binnenthal minerals, xxvii, xxxv.
 — & SMITH (G. F. H.), hatchite, a new mineral, 287.
 Solution and growth of crystals, 74.
 SOMMERFELDT (E.), Die Kristallgruppen (review), 254.
 Space-lattices, 51.
 Spain, minerals of, 72.
 SPENCER (L. J.), larger diamonds of South Africa, 140.
 — obituary of N. Story - Maskelyne, 149.
 — list of new mineral names, 352.
 — Brauns's Mineral Kingdom (review), 254, 307.
 — crystallogr. determinations, 56, 217.
 — International Catalogue Sci. Lit., xxviii.
- SPEZIA (G.), obituary, 248.
 STORY-MASKELYNE (M. H. N.), obituary, 149, 394.
 Strüverite from Malay, 224, 302.
- Tarnish on ores, 73.
 TENDRON (F.), collection of minerals, 252.
 Text-books, 74, 161, 250, 304, 385.
 Thin-sections of rocks, 317.
 — determination of optic axial angles in, 348.
 Tilasite from India, 86.
 — from Sweden, 95.
 Topaz from Lundy Island, 296.
 Topographical mineralogies, 71, 72, 73, 306, 331.
 Torbernite from Cornwall, 49.
 TÖRNBOHM (A. E.), obituary, 248.
 Total-reflection diagram, 236.
 Total-reflectometer, 105.
 Tourmaline from Lundy Island, 299.
 Tourmalinization, 67.
 TUTTON (A. E. H.), elected president, xxxvi.
 — Crystallography (review), 162.
 — & HUTCHINSON (A.), temperature of optical uniaxiality in gypsum, 257.
 — & PORTER (M. W.), double chromates, 169.
 Twinning of quartz, 116.
- Universal goniometer, 100.
 Urea nitrate, 212.
 USSING (N. V.), obituary, 249.
- VAN 'T HOFF (J. H.), obituary, 160.
 Vein-breccias, 124.
 VERNADSKY (V. I.), Descriptive Mineralogy (review), 72.
 'Victoria' diamond, 148.
 Vienna Mineralogical Society, 75.
 VIOLA (C.), elected hon. member, xxxii.
 VOIGT (W.), Lehrbuch der Kristallphysik (review), 253.
 Volcanic breccias, 124.
- Wales, minerals of, 63, 338.
 WALKER (I.), collection of minerals, 251.
 WALLERANT (F.), elected hon. member, xxxviii.
 WATSON (J.), Building Stones (review), 165.
 WEINSCHENK (E.), Petrographic Methods (review), 304.

WHITLOCK (H. P.), Calcites of New York (review), 166.	Xenotime from Malay, 110.
Wiltshireite, 121, 197.	
WINCHELL (A. N.), Optical Minerogy (review), 250.	Zeitschrift für Krystallogr., 250.
Wood-tin, 80.	Zinc-blende in coal, 221.
WURTZ (H.), obituary, 160.	ZIRKEL (F.), obituary, 381. Zirkelite from Ceylon, 309.

ERRATA.

VOL. V.

- PAGE LINE.
58 2* *For* $2R_2O$, *read* $2R_2O_3$.

VOL. XII.

- 384 14* *For* XII, *read* vol. XI.

VOL. XIII.

- 329 5* *For* Bindon, *read* Bindon House in the parish of Langford Budville, west of Taunton.

VOL. XIV.

- 341 6* *For* (no. 83989), *read* (no. 83979).

VOL. XV.

- xxxiv 8 *For* Friederich, *read* Friedrich.
 24 1
 25 (fig. 6) } *For* g {211}, *read* g {221}.
 24 (Table of angles) *For* cs = (001) : (102) $42^\circ 0'$, *read* $41^\circ 50'$.
 " " *For* gf = (211) : (101) $43^\circ 37'$, *read* gf = (221) : (101) $43^\circ 58'$.
 420 20 " *For* in nepheline-syenite, *read* in crystalline limestone at contact with nepheline-syenite.
 424 6* The author of the name 'Lublinite' is J. Morozewicz (1907); N. S. Watitsch appears as the author of a long résumé of Morozewicz's paper (see this vol., p. 864).
 488 17 *For* Vedrite, *read* Verdite.
 487 — *Under* FARRINGTON (O. C.), *add* Phosphorus (1908).
 488 — *Add* GAUTIER (A.), Minervite (1898).
 " — *Add* HOWE (H. M.), Cementite (1890), Ferrite (1890).
 489 — *Dele* OSMOND (F.), Cementite (1895).
 " — *Add* LUZI (W.), Graphitite (1891).
 " — *Under* MOROZEWICZ (J.), *add* Lublinite (1907).
 441 — *Dele* VATIC and WATITSCH.
 448 — *Under* BOWEN (D.), *for* xxvii, *read* xxviii.

* From bottom of page.