

INDEX TO VOL. XI.

1896-1899.

	PAGE
Aberdour, the Dolerite of, with some Speculations on the Origin of Eruptive Rocks in general. By J. G. Goodchild, F.G.S.	
[Abstract],	271, 302
Accounts, Abstract of Treasurer's, for 1895-96, 152; for 1896-97, 319; for 1897-98,	320
Agates, Cut, Collection of, exhibited by John Kirsop,	146
Agates, On the Structure of. By Prof. M. Forster-Hedde, F.R.S.E.,	153
Algeria, Shark's Teeth from Tebessa, exhibited by John Renwick,	149
Amygdules and (Minute) Perfect Crystals of Quartz in "Sooty Coal" found at Sevenacres, Kilwinning, The Occurrence of. By John Smith. [Short Summary],	141
Annbank, Ayrshire, <i>Lingula</i> from Upper Carboniferous Strata at, exhibited by John Smith,	300
Annelid Perforations in Flaggy Sandstones from the Carboniferous Limestone Series, Notes on. By Dr. John Young, F.G.S. [Summary],	297
Anthracite occurring at Provanhall, Lanarkshire, Notes on the. By R. W. Dron, C.E., M.E. [Summary],	307
Arragonite from Cumbrae, Mineral resembling, exhibited by James Stark,	296
Arctic Regions, Lat. 79 N. by Long. 48 E., Rocks and Minerals from, exhibited for Capt. Crowther by G. M. Pratt,	133, 139
<i>Archæodoris carbonarius</i> from Shale, near Giffen, Ayrshire, exhibited by John Smith,	298
Argyllshire, Papers, Specimens or Excursions:—Oban, 296; Tighnabruaich,	136
Arran, Detached Microliths from the Pitchstone Sill at Corriegills. By John Smith,	275, 307
Arran, Felsite from Whiting Bay, exhibited by Dr. John Young, F.G.S.,	132
Arran, Fossiliferous Ironstones from, exhibited by James Neilson (1),	295
Arran Geology, Early Paper on, by Sedgwick and Murchison, 1828, exhibited by James Neilson (1),	295
Arran, List of Fossils from the Cock of, and Slidery Water Head. By William Gunn, F.G.S.,	188
Arran, On the Old Volcanic Rocks of the Island of. By William Gunn, F.G.S.,	174, 313

	PAGE
Arran, On the Stratified Rocks of the Shore-line from Clachland Point to the Cock of. By James Thomson, F.G.S.,	12
Arran, Pitchstone from, with Starry Microliths, exhibited by John Smith,	309
Arran, The Glacial Phenomena of Loch Ranza Glen. By Charles R. Cowie. [Abstract],	282, 309
"Arran, The Mineralogy of," by Rev. James Headrick, 1807, exhibited by James Neilson (1),	295
Arran, Papers, Specimens or Excursions :—12, 136, 174, 295, 309, 313; Clachland Point, 12; Corriegills, 275, 301, 307, 309; Cock of Arran, 12; Corrie, 149; Lagan, 26; Loch Ranza, 282, 309; Slidery Water Head, 188; Whiting Bay,	132
Auchenreoch and Murroch Glens, Dumbartonshire, Notes on Excursion to. By William Armour, C.E.. [Short Summary],	292
Auld Wives' Lifts, Craigmaddie, Dumbartonshire, Photographs of the, exhibited by John Renwick,	148
Auld Wives' Lifts, Sepia Drawing of the, exhibited by W. A. Donnelly,	148
Ayrshire and Lanarkshire, Notes on some Dry River Channels in. By John Smith. [Summary],	
Ayrshire, Stone Hammers from, exhibited by John Smith,	145
Ayrshire, The Drift or Glacial Deposits of. By John Smith. [Short Summary.] (In full in Supplement to <i>Trans.</i> vol xi.),	146
Ayrshire, Papers, Specimens or Excursions :—146, 232, 245, 310; Annbank, 300; Auchincruive, 318; Auchinleck, 136; Ballantrae, 293; Ballochmyle, 146, 298, 318; Barskimming, 318; Beith, 311; Carrick Shore, 150; Craigie, 136; Dockra, 311; Dalry, 137; Darvel, 316; Dreghorn, 300, 309; Giffen, 298; Glen Muck and Ness Glen, 136; Greenan Castle, 128; Greenhill, 192; Hacks, 311; Kilbirnie, 316; Kilmaurs, 192; Kilmarnock, 141; Kilwinning, 137, 141; Largs, 292; Lissens, 122; Lugar, 309; Lugton, 130; New Cumnock, 293; Seven- acres, 141; Stewarton, 141; Troon, 238, 301, 317; Waterland, 311; West Kilbride,	136
Bain, Sir James, The Death of, referred to by John Renwick, <i>V.P.</i> , 301; and in Council Report,	306
Ballochmyle, Ayrshire, Dendritic Markings in the Red Sandstone of. By Rev. D. Landsborough. [Title only],	146
Ballochmyle, Holes filled with soft, reddish Shale in the <i>Spirorbis</i> Limestone of. By John Smith. [Short Summary],	298
Ballochmyle, On a Purple Rock with Glittering Spots ("Skinkle Rock") from. By John Smith. [Short Summary],	298
Ballochmyle, Red Sandstone with Concentric Ring Markings from, exhibited by Rev. D. Landsborough,	146
Banavie to Fort Augustus Railway, Notes of Excursion to, by John Renwick. [Short Summary],	305

	PAGE
Banavie to Fort Augustus Railway, Photographs on the line of the, exhibited by William Sinclair,	305
Barite Veins of South-West Scotland, The. By John Smith,	232, 301
Bark of a Large Tree from Phillipstoun Oil-shales, near Linlithgow, The, exhibited by Robert Dunlop,	140
Bearing of Fossil Ichthyology on the Doctrine of Evolution, The. By R. H. Traquair, M.D., LL.D., F.R.S. [Abstract],	269, 299
Bell, Mr. Dugald, F.G.S., Illness and Death of, referred to by William Armour, C.E., 147; and in Council Report,	306
Bell, Mr. Dugald, F.G.S., Notice of the Late. By J. B. Murdoch. [Title only],	298
Birds, Extinct. By R. H. Traquair, M.D., LL.D., F.R.S. [Abstract],	287, 310
Bituminous Shale, The, used by William Murdock for gas-making, exhibited by John Smith,	308
Bivalve Shell, from Lugton, Ayrshire, filled with Calcite and Limestone, exhibited by John Smith,	311
Blackhill, Minute Quartz Crystals from Columnar Coal at, exhibited by Joseph Somerville,	144
<i>Bos primigenius</i> , Bones of, from Paisley, exhibited for John Wilson by Joseph Somerville,	297
Boulder-clay at Hamilton Hill, N. side of Glasgow, On the. By John Smith. [Title only],	302
Boulder-clay, The Occurrence of certain curious Concretions or Nodules in. By John Smith. [Short Summary],	140
Boulder-clay, The Distribution of. By James White. [Title only],	313
Boulders in Cuttings on the Joint Railway between Kilmarnock and Stewarston, and elsewhere in the District, Notes upon. By Robert Craig. [Short Summary],	141
Bowling, Excursion to, referred to by James Neilson (1),	150
British Association Meeting at Ipswich, in 1895, referred to in Council Report,	137
British Association Meeting at Liverpool, in 1896, Notes on the. By J. B. Murdoch. [Title only],	140
Bute, A Post-glacial Shell-bed. Notes on Excavations at the Rothesay Gasworks, in 1896-1897. By John Ballantyne. [Abstract],	280, 309
Bute, Papers, Specimens or Excursions:—Cumbrae, 143, 144, 296, 301; Millport, 143; Rothesay,	280, 309
Caithness, On certain Plant-remains from the O.R.S. of. By James Reid and Peter Macnair. [Short Summary],	313
Caithness, <i>Palaeospondylus</i> , a minute Fossil Fish from, exhibited by R. H. Traquair, M.D., LL.D., F.R.S.,	297
Caithness-shire, Papers, Specimens or Excursions,	297, 313
Calcite, Crystallized, from Wickwar, Gloucestershire, exhibited by J. B. Murdoch,	304

	PAGE
California, Goldmining in the Sierra Nevada. By R. W. Dron, C.E., M.E. [Abstract],	265, 297
Callander, Perthshire, Notes on Excursion to. By Peter Macnair. [Summary],	311
Camelon and Falkirk, Notes on Excursion to. By John Renwick. [Summary],	312
Carmichael Burn, Lanarkshire, On the Upper Silurian and O.R.S. Rocks of, and their bearing on the Origin of the O.R.S. Question. By Peter Macnair. [Summary],	313
Carrick, Mr. Edward, Death of in South Africa, referred to by John Smith, 145; and in Council Report,	295
Celestite from Murroch Glen, Dumbartonshire, exhibited by William Armour, C.E.,	292
Celestite from Totworth, Gloucestershire, exhibited by J. B. Murdoch,	304
Cement Nodule with Galena Crystals from Dockra, Beith, exhibited by John Smith,	311
<i>Cephalaspis</i> and other O.R.S. Fishes, Discovery of, near Oban, referred to by G. M. Pratt,	296
“China-clay” Mine, The, and Water-of-Ayr Hone-stone Bed, at Troon, Ayrshire. By John Smith,	238, 301
<i>Cladodus Neilsoni</i> (Traquair) from the Carboniferous Limestone of East Kilbride, On. By R. H. Traquair, M.D., LL.D., F.R.S.,	41
<i>Cladodus Neilsoni</i> , Drawing of, by R. H. Traquair, M.D., LL.D., F.R.S. [Plate],	50
Clachland Point to the Cock of Arran, On the Stratified Rocks of the Shore-line from. By James Thomson, F.G.S.,	12
Clachland Point to the Cock of Arran, Sections of Rocks from. By James Thomson, F.G.S. [Plate],	12
“Coal Apples” from Lugton Water, Ayrshire. By John Smith,	130
Coal-gas as an Illuminant, Lord Dundonald, 9th Earl, the Discoverer of. By Robert Craig. [Abstract],	290, 313
Cock of Arran, List of Fossils from the, by James Thomson, F.G.S.,	30
Concretions or Nodules in Boulder-clay, On the Occurrence of certain. By John Smith. [Short Summary],	140
Corals and Coral Reefs. By J. G. Goodchild, F.G.S. [Abstract],	277, 308
Corals, <i>Phillipsastræa</i> , and other Genera of, exhibited by James Thomson, F.G.S.,	142
Corrie, Arran, Specimen showing Junction of Granite and Slate, from Cioch burn, exhibited by William Ker,	149
Corriegills, Arran, Detached Microliths from the Great Pitchstone Sill at. By John Smith. [Abstract],	275, 307
Corriegills, On a Flexed Structure in the Pitchstone of. By John Smith. [Title only],	301
Council, Report of the, for 1895-1896, 134; for 1896-1897, 293; for 1897-1898,	305

	PAGE
Craigmaddie Moor, Notes on Excursion to. By John Renwick.	
[Summary],	148, 315
Crannog, The Clyde, and Dumbuck, Notes on Excursion to. By William Armour. [Short Summary],	311
Crannog, The Clyde, Coloured Drawings of, exhibited by W. A. Donnelly,	311
Crofthead, Neilston, Notes on Volcanic Rock interbedded with Loose Sand at. By John Mackie, M.E. [Summary],	299
Crystals, Detached, from White Trap at Dreghorn, Ayrshire, exhibited by John Smith,	309
Cumbræ, On a drawn-out Spherulitic (?) Structure in a Trap Dyke in. By John Smith. [Title only],	301
Dalmeny <i>Lepidophloios</i> , Note on a Microscopic Slice of the Core of the. By James Bennie,	263, 303
Dead Sea Water with Analysis, exhibited by M. Blair, V.P.,	312
Deil's Dyke near Greenan Castle, Ayrshire, On a Globular Structure in a Patch of Shale enclosed in the. By John Smith,	128
Dendritic Markings in Red Sandstone, Ballochmyle, Ayrshire. By Rev. D. Landsborough. [Title only],	146
Dennistoun, Glasgow, Fossils from Deep-level Sewer at, exhibited by James Neilson (1),	147, 149
Desert Conditions in Britain. By J. G. Goodchild, F.G.S.,	71
Desert Sand from Ripple Marks, Egypt, exhibited by M. Blair, V.P.,	312
Detached Microliths from the Pitchstone Sill at Corriegills, Arran. By John Smith,	275, 307
Distribution of Boulder-clay, The. By James White. [Title only],	313
Dockra, Beith, Cement Nodule with Galena Crystals from, exhibited by John Smith,	311
Dolerite of Aberdour, The, with some Speculations on the Origin of Eruptive Rocks in general. By J. G. Goodchild, F.G.S. [Abstract],	271, 302
Dow, Mr. William, Death of, referred to in Council Report,	295
Dreghorn, Ayrshire, Detached Crystals from White Trap at, exhibited by John Smith,	309
Dreghorn, Freshwater Limestone from Upper Carboniferous strata, exhibited by John Smith,	300
Dreghorn, <i>Spirorbis helicteris</i> from, exhibited by John Smith,	300
Drift or Glacial Deposits of Ayrshire, The. By John Smith. [Short Summary.] (In full in Supplement to <i>Trans.</i> vol xi.),	146, 294
Dry River Channels in Ayrshire and Lanarkshire, Notes on some. By John Smith. [Summary],	292
Dumbartonshire, Papers, Specimens or Excursions:—Auchenreoch Glen, 292, 316; Ben Reoch, 318; Bowling, 150, 315; Cardross, 136; Dumbuck, 311; Garelochhead, 137; Kilpatrick Hills, 318; Murroch Glen, 292, 316; Tullich,	318

	PAGE
Dumbuck and the Clyde Crannog, Notes on Excursion to. By William Armour, C.E. [Short Summary],	311
Dumfriesshire, Papers, Specimens or Excursions :—Sanquhar, 301 ; Wanlockhead,	303
Dundonald, Lord, 9th Earl, the Discoverer of Coal-gas as an Illuminant. By Robert Craig. [Abstract],	290, 313
Dunlop, Robert, <i>V.P.</i> , Departure for New Zealand referred to by John Renwick, <i>V.P.</i> ,	308
Dunottar, Kincardineshire, Pebbles with Polished Surfaces from, exhibited by J. B. Murdoch,	292
East Kilbride, On <i>Cladodus Neilsoni</i> (Traquair) from the Carboniferous Limestone of. By R. H. Traquair, M.D., LL.D., F.R.S.,	41
Egypt, Specimens from, exhibited by M. Blair, <i>V.P.</i> ,	312
Eigg, Notes on the Geology of the Island of. By Henry Taylor, ...	32
Eigg, Map of the Island of. [Plate],	32
Eolithic Flint Finds near Ightham, Kent. By James S. M'Lennan. [Summary],	142
Eruptive Rocks in general, The Dolerite of Aberdour, with some Speculations on the Origin of. By J. G. Goodchild, F.G.S. [Abstract],	271, 302
Excursions, Photographs taken at, exhibited by Robert Dunlop, ...	140
Excursions, Photographs taken at, exhibited by S. Fingland, ...	310
Excursions, Summaries of, for 1896, 136; for 1897, 315; for 1898,	317
Excursions, Notes on :—To Auchenreoch and Murroch Glens, by William Armour, C.E. [Short Summary] 292; to Banavie and Fort Augustus Railway, by John Renwick [Summary] 305; to Callander, Perthshire, by Peter Macnair [Title only] 311; to Camelon and Falkirk, by John Renwick [Summary] 312; to Craigmaddie, by John Renwick, 148, 315; to Dumbuck and the Clyde Crannog, by William Armour, C.E. [Title only] 311; to Glen Roy, by James Neilson (1) [Short Summary] 302; to Neilston, by James Anderson, 312; to People's Palace, Glasgow, by G. R. Thompson [Summary] 311; to Provanhall, by R. W. Dron, C.E., M.E. [Summary], ...	307
Exploration of a Rock-Shelter and Shell-Mound on the Carrick Shore, Ayrshire, The. By John Smith [Summary],	150
Extinct Birds. By R. H. Traquair, M.D., LL.D., F.R.S. [Abstract],	237, 310
Farøe, The Minerals of the Islands of. By Dr. M. Forster-Heddle, F.R.S.E. [Title only],	293
Felsite from Whiting Bay, Arran, exhibited by Dr. J. Young, F.G.S., Fifehire, Papers, Specimens or Excursions :—Aberdour, 271. 302; Kinghorn and Kirkcaldy,	317
Finnich Glen, Excursion to, reported on by William Sinclair, ..	292

	PAGE
Fishes in O. R. S. near Oban, Discovery of, referred to by G. M. Pratt,	296
Fish-remains from the Lanarkshire Oil-shales, exhibited by Robert Dunlop,	143
Fish-remains from the Old Red Sandstone, exhibited by Peter Macnair and James Reid,	133
Flaggy Sandstones of the Carboniferous Limestone with Annelid Perforations, exhibited by Dr. John Young, F.G.S.,	297
Flexed Structure in the Pitchstone of Corriegills, Arran, On a. By John Smith. [Title only],	301
Flints, Chipped, from the Desert, Egypt, exhibited by M. Blair, V.P.,	312
Flint Finds, Eolithic, near Ightham, Kent. By J. S. M'Lennan. [Summary],	142
Flint Implements from Irish and Scottish Localities, exhibited by James Neilson, V.P.,	143
Fossiliferous Ironstones from Arran, exhibited by James Neilson (1),	295
Fossil Plants from the Sanquhar Coal-field, Photographs of, exhibited by S. Fingland,	301
Fossils found in Interstratified Shales at Lagan, Arran, List of. By James Thomson, F.G.S.,	24
Fossils from Deep-level Sewer, Dennistoun, Glasgow, exhibited by James Neilson, V.P.,	147, 149
Fossils from Nummulitic Limestone, Egypt, exhibited by M. Blair, V.P.,	312
Fossils from Sliderry Water Head, Arran, List of. By William Gunn, F.G.S.,	188
Fossils from the Cordilleras of Peru, exhibited by J. B. Murdoch,	310
Fossils in Limestone in the Breccia under the Cock of Arran, List of. By James Thomson, F.G.S.,	30
Fossils in the 30-feet Limestone and Shale near Lagan, Arran, List of. By James Thomson, F.G.S.,	26
Fossil Tree, <i>Lepidophloios</i> , Polished Section of a, exhibited by Robert Dunlop,	303
Fossil Trees at Whiteinch, Photographs of, exhibited by John R. Stewart,	133
Fossil Trees at Whiteinch, Report on, by Committee,	151
Freshwater Limestone from Dreghorn, Ayrshire, exhibited by John Smith,	300
Freshwater Limestone underlying a Bed of Marine Limestone near Paisley, On a. By John Smith. [Title only],	302
Functions and Phenomena of Rivers, Some. By Rev. Fred. Smith. [Summary],	148
Gasmaking, The Bituminous Shale used for, by William Murdock, exhibited by John Smith,	308
Geological Map of England and Wales by William Smith, 1824, exhibited by James Stark,	296

	PAGE
Geological Time. By J. G. Goodchild, F.G.S. [Abstract],	267, 297
Giffen, Ayrshire, Nudibranchs in Fossiliferous Shale near, exhibited by John Smith,	298
Giffnock Sandstones, On the Physical Geology and Palæontology of the, and their Bearings on the Origin of Sandstone Rock generally. By Peter Macnair,	199, 296, 301, 310
Giffnock Sandstones, Plant-remains from the, exhibited by Peter Macnair,	310
Glacial Phenomena of Loch Ranza Glen, Arran, The. By Charles R. Cowie. [Abstract],	282, 309
Glasgow, Papers, Specimens or Excursions:—Alexandra Park, 315; Blackhill, 144; Dennistoun, 147, 149; Hamilton Hill, 302; Kelvinside, 292; People's Palace, 311; Victoria Park, 151; Whiteinch,	133
Glen Roy, The Parallel Roads of, Notes on Excursion to. By James Neilson (1). [Title only],	302
Glen Roy, Additional Notes on. By James Neilson (1). [Summary],	302
Globular Structure in a Patch of Shale enclosed in the "Deil's Dyke," near Greenan Castle, Ayrshire, On a. By John Smith,	128
Globular Structure in a Trap near Neilston, On a. By John Smith. [Title only],	301
Gloucestershire, Specimens of Minerals from, exhibited by J. B. Murdoch,	304
Gold-bearing Quartz from South Africa, exhibited by Joseph Sommerville,	139
Gold-bearing Rocks from Montana, U.S.A., exhibited by R. W. Dron, C.E., M.E.,	139
Goldmining in the Sierra Nevada, California. By R. W. Dron, C.E., M.E. [Abstract],	265, 297
Granite, Spango. By John Smith,	256, 310
Graptolites as Indices of Stratigraphical Horizons. By John Horne, F.G.S., F.R.S.E. [Summary],	145
Greenhill, Kilmaurs, Ayrshire, Notes Retrospective on the Closing of the Quarries of. By Robert Craig,	192, 296
Gypsum from Aust Cliff, Gloucestershire, exhibited by J. B. Murdoch,	304
Hacks, Kilwinning, "Plasma" from, exhibited by John Smith,	311
Hamilton Hill, N. side of Glasgow, On the Boulder-clay at. By John Smith. [Title only],	302
Headrick, Rev. James, "The Mineralogy of Arran," 1807, exhibited by James Neilson (1),	295
Heddle, M. Forster-, Notice of the Life and Work of the Late. By J. G. Goodchild, F.G.S. [Short Summary],	300
Highlands, The Problem of the Marginal. By Peter Macnair. [Abstract],	273, 305

	PAGE
Holes filled with soft reddish Shale in the <i>Spirorbis</i> Limestone of Ballochmyle, Ayrshire. By John Smith. [Short Summary],	298
Hone-stone Bed, The Water-of-Ayr, and the "China-clay" Mine at Troon, Ayrshire. By John Smith,	238
Hornblende Schists, Banded, from Balhoulan Quarry, Pitlochry, Perthshire, exhibited by Peter Macnair,	149
Ichthyology, The Bearing of Fossil, on the Doctrine of Evolution. By R. H. Traquair, M.D., LL.D., F.R.S. [Abstract], ...	269, 299
Ightham, Kent, Eolithic Flint Finds near. By J. S. M'Lennan, ...	142
Inverness-shire, Papers, Specimens or Excursions:—Banavie, 304; Fort Augustus, 304; Glen Roy, 302, 317; Invergarry and Fort Augustus Railway,	306
Ipswich, Meeting of the British Association, in 1895, at, referred to in Council Report,	137
Junction of the Granite and Slate, Specimen of the, from the Cloch Burn, Corrie, Arran, exhibited by William Ker,	149
Kelvin, Lord, Jubilee of, referred to in Report of Council, ...	137
Kelvinside, Finely Laminated Clay from, exhibited by James Neilson (1), <i>V.P.</i> ,	292
Kent, The Shode Valley in. By J. S. M'Lennan. [Short Summary],	139
Kilnaurs, Ayrshire, Notes Retrospective on the Closing of the Quarries of Greenhill. By Robert Craig,	192, 296
Kincardineshire, Papers, Specimens or Excursions:—Dunottar, ...	292
Kirsop, Mr. John, Death of, referred to, by J. B. Murdoch, 300; and in Council Report,	306
King, Mr. Thomas, Memorial Notice of. By John Renwick, <i>V.P.</i> , [Summary],	132
King, Mr. Thomas, Death of, referred to by John Dansken, <i>V.P.</i> , 132; and in Report of Council,	137
Kirkland, Mr. William, First Secretary of the Society, Death of by accident, referred to by J. B. Murdoch,	146
Knox, Mr. Adam, Death of, referred to, by James Neilson, <i>V.P.</i> , 143; and in Council Report,	306
Lagan, Arran, Lists of Fossils from. By James Thomson, F.G.S.,	24, 26
Laminated Clay, Finely, from Kelvinside, exhibited by James Neilson, <i>V.P.</i> ,	292
Lamna, Sharks' Teeth of the Genus, from Tebessa, Algeria, exhibited by John Renwick,	149
Lanarkshire, Papers, Specimens or Excursions:—143, 232, 245, 256, 292, 309, 313; Abingdon, 317; The Avon, 293; Blackhill, 144; Calderwood Glen, 136; Carmichael Burn, 313; Crawford-john, 307; Leadhills, 303, 307; East Kilbride, 41; Provanhall, 307; Snar Valley,	250

	PAGE
Landslips, On some Recent. By J. B. Murdoch. [Title only], ...	143
Leadhills, Lanarkshire, Ancient Lead Slag from near, exhibited by John Smith,	307
Lead Slag, Ancient, from Leadhills, exhibited by John Smith, ...	307
<i>Lepidophloios</i> , Note on a Microscopic Slice of the Dalmeny. By James Bennie,	263, 303
Limestone, Freshwater, from Dreghorn, Ayrshire, exhibited by John Smith,	300
<i>Lingula</i> , from Upper Carboniferous Strata, Annbank, Ayrshire, exhibited by John Smith,	300
Linlithgow, Bark of a Large Tree from Phillipstoun Oil-shales, exhibited by Robert Dunlop,	140
Linlithgowshire, Papers, Specimens or Excursions :--Bathgate and Linlithgow, 136; Phillipstoun,	140
Lissens, Kilwinning, On a Section of Carboniferous Strata in a Cutting of the Caledonian Railway at. By John Smith, ...	122
Liverpool, British Association Meeting at, in 1896, Notes on. By J. B. Murdoch. [Title only],	140
Loch Ranza Glen, Arran, The Glacial Phenomena of. By Charles R. Cowie. [Abstract],	282, 309
Lord Dundonald, 9th Earl, the Discoverer of Coal-gas as an Illum- inant. By Robert Craig, <i>Hon. Member</i> . [Abstract], ...	290, 313
Lugton, Ayrshire, Bivalve Shell from, exhibited by John Smith, ...	311
Lugton Water, "Coal Apples" from. By John Smith,	130
Marseilles, Perforated White Limestone from, exhibited by James Stark,	296
Microoliths, Detached, from the Pitchstone Sill at Corriegills, Arran. By John Smith,	275, 307
Microoliths, Starry, in Pitchstone from Arran, exhibited by John Smith,	309
Microscopical Examination of Rocks, The. By George R. Thompson. [Abstract],	279, 309
Microscopic Slice of the Core of the Dalmeny <i>Lepidophloios</i> , Note on a. By James Bennie,	263
Mid-Lothian, Papers, Specimens or Excursions :--Cramond, 315; Edinburgh, Arthur's Seat, 316; Pentland Hills,	318
Minerals from Gloucestershire, exhibited by J. B. Murdoch, ...	304
Minerals of the Islands of Farøe, The. By Dr. M. Forster-Heddle. [Title only],	293
Montana, U.S.A., Goldbearing Rocks from, exhibited by R. W. Dron, C.E., M.E.,	139
Moraines and Deltas. By Matthew Blair, <i>V.P.</i> [Abstract],	289, 312
Neilston, Renfrewshire, Notes on Excursion to. By James Anderson...[Title only],	312

INDEX.

	PAGE
Neilston, on a Globular Structure in a Trap near. By John Smith. [Title only],	301
New Zealand, Departure of Mr. Robert Dunlop, V.P., for, referred to by John Renwick, V.P.,	308
Nile Mud Deposit, exhibited by Matthew Blair, V.P.,	312
Notes on the Old Red Sandstone, and the O.R.S. Fishes. By Peter Macnair. [Summary],	133
Notes Retrospective on the Closing of the Quarries of Greenhill, Kilmaurs, Ayrshire. By Robert Craig,	192, 296
Notes on Volcanic Ash interbedded with Loose Sand at Crofthead, Neilston. By John Mackie, M.E. [Summary],	299
Notes upon Boulders in Cuttings on the Joint Railway between Kilmarnock and Stewarton, and elsewhere in the District. By Robert Craig. [Short Summary],	141
Nudibranchs in Fossiliferous Shale near Giffen, Ayrshire, exhibited by John Smith,	298
Oban, Discovery of <i>Cephalaspis</i> and other O.R.S. Fishes near, referred to by G. M. Pratt,	296
Occurrence of Species of the Genus <i>Palaeotrœa</i> (M'Coy), in the Lower Carboniferous Strata of Scotland, On the, with a Description of some new Species and Notices of Varieties. By James Thomson, F.G.S.,	1
Oil-shales, Fish-remains from the Lanarkshire, exhibited by Robert Dunlop,	143
Old Red Sandstone, and the O.R.S. Fishes, Notes on the. By Peter Macnair. [Summary],	133
Old Volcanic Rocks of the Island of Arran, On the. By William Gunn, F.G.S.,	174, 313
Paisley Clay-beds, Bones of <i>Bos primigenius</i> from, exhibited for John Wilson by Joseph Sommerville,	297
Paisley, On a Freshwater Limestone underlying a Bed of Marine Limestone near. By John Smith. [Title only],	302
Palæontology of the Giffnock Sandstones, On the Physical Geology and. By Peter Macnair,	199, 310
<i>Palæospondylus</i> , a minute fossil fish from Caithness, Notes on. By R. H. Traquair, M.D., LL.D., F.R.S. [Short Summary],	297
Palæozoic Radiolarians, and Radiolarian Chert. By John Smith, 245, 303	
Palæolithic Weapons and Implements, Scottish, exhibited by Rev. Frederick Smith,	148
<i>Palaeotrœa</i> (M'Coy), On the Occurrence of Species of the Genus, in the Lower Carboniferous Rocks of Scotland. By James Thomson, F.G.S.,	1
Papers read in Session 1895-1896,	134
Parallel Roads of Glen Roy, Notes on Excursion to. By James Neilson (1). [Short Summary],	302, 317

	PAGE
<i>Parka decipiens</i> , its Origin, Affinities, and Distribution. By J. Reid, W. Graham, and Peter Macnair,	105, 144
<i>Parka decipiens</i> , Drawings of. By Peter Macnair. [Plate], ...	121
People's Palace, Glasgow, Notes on Excursion to. By G. R. Thompson. [Summary],	311
Perforated Flaggy Sandstones from the Carboniferous Limestone series, exhibited by Dr. John Young, F.G.S.,	297
Perforated White Limestone from Marseilles, exhibited by James Stark,	296
Permian Outlier of the Snar Valley, Lanarkshire, The. By John Smith,	250, 309
Perthshire, Papers, Specimens or Excursions :—Callander, 311 ; Killin, 315 ; Glen Ogle, 315 ; Pitlochry,	149
Peru, Fossils from the Cordilleras of, exhibited by J. B. Murdoch,	310
Petrified Wood from Egypt, exhibited by Matthew Blair, V.P.,	312
Photographs of Fossil Plants from the Sanquhar Coal-field, exhibited by S. Fingland,	301
Photographs of Fossil Trees at Victoria Park, Whiteinch, exhibited by John R. Stewart,	133
Photographs of Loch Ranza Glen, Arran, exhibited by Charles R. Cowie,	309
Photographs on the line of the Banavie to Fort Augustus Railway, exhibited by William Sinclair,	305
Photographs of the Auld Wives' Lifts, Craigmaddie, exhibited by John Renwick,	148
Photographs taken at Recent Excursions, exhibited by Robert Dunlop,	140
Photographs taken at Excursions, exhibited by S. Fingland, ...	310
<i>Phillipsastræa</i> , On the Genus. By James Thomson, F.G.S., ...	51
<i>Phillipsastræa</i> , <i>Lithostrotion</i> , and <i>Diphyphyllum</i> , Genera of Corals, exhibited by James Thomson, F.G.S.,	142
Phillipstoun Oil-shales, The Bark of a Large Tree from, exhibited by Robert Dunlop,	140
Phlogopite (Star Mica), with special reference to the Cause of the Asterism. By Joseph Somerville. [Summary],	144
Physical Geology and Palæontology of the Giffnock Sandstones, and their Bearings on the Origin of Sandstone Rock generally, On the. By Peter Macnair,	199, 296, 301, 310
Pitchstone from Arran, showing Starry Microliths, exhibited by John Smith,	309
Pitchstone of Corriegills, Arran, On a Flexed Structure in the. By John Smith. [Title only],	301
Pitchstone Sill at Corriegills, Detached Microliths from the. By John Smith,	275, 307
Pitlochry, Perthshire, Banded Hornblende Schists from Balhoulan Quarry, exhibited by Peter Macnair,	149

	PAGE
Plant-remains from the Giffnock Sandstones, exhibited by Peter Macnair,	310
Plant-remains from the O.R.S. of Caithness, On certain. By James Reid and Peter Macnair. [Short Summary],	313
"Plasma," showing 88 minute faults, from Hacks, Kilwinning, exhibited by John Smith,	311
Polished Surfaces, Pebbles with, from Dunottar, Kincardineshire, exhibited by J. B. Murdoch,	292
Post-glacial Shell-bed, A Bute. Notes on Excavations at the Rothesay Gasworks in 1896-1897. By John Ballantyne. [Abstract],	280, 309
Problem of the Marginal Highlands, The. By Peter Macnair. [Abstract],	273, 305
Proceedings for Thirty-ninth Session, 1896-1897,	132
Proceedings for Fortieth Session, 1897-1898,	292
Proceedings for Forty-first Session, 1898-1899,	304
Provanhall, Lanarkshire, Notes on Excursion to. By R. W. Dron, C.E., M.E. [Summary],	307
Purple Rock with Glittering Spots ("Skinkle Rock"), from Ballochmyle, Ayrshire, On a. By John Smith. [Short Summary],	298
Quartz Crystals, Minute, from Columnar Coal at Blackhill, exhibited by Joseph Sommerville,	144
Quartz in "Sooty Coal," The Occurrence of Amygdules and (Minute) Perfect Crystals of, found at Sevenacres, Kilwinning. By John Smith. [Short Summary],	141
Radiolaria, Detached, from Leadhills and Wanlockhead, exhibited by John Smith,	303
Radiolarians, Palæozoic, and Radiolarian Chert. By John Smith, 245, 303	
Red Sandstone showing Concentric Ring Markings from Ballochmyle, Ayrshire, exhibited by Rev. D. Landsborough,	146
Renfrewshire, Papers, Specimens or Excursions:—Barrhead, 317; Crofthead, 299, 301, 316; Devol's Glen, 318; Giffnock, 199, 296, 301, 310, 317; Gourock and the Cloch, 315; Neilston, 299, 301, 312, 316; Paisley, 297, 302; Port Glasgow, 318; Thornliebank,	131
Report by Committee on Fossil Trees at Whiteinch,	151
Report of the Council for 1895-1896, 134; for 1896-1897, 293; for 1897-1898,	305
Report on the Library for 1895-1896,	138
Rivers, Some Functions and Phenomena of. By Rev. Frederick Smith. [Short Summary],	148
Robertson, Dr. David, F.L.S., F.G.S., Death of, referred to by James Neilson (1), 140; and at Council Meeting,	295

	PAGE
Rocks, Minerals, and Fossils from the Arctic Regions, exhibited for Capt. Crowther, by G. M. Pratt,	133, 139
Rocks and Minerals from Auchenroch and Murroch Glens, exhibited by James Neilson, <i>V.P.</i> ,	292
Rocks, A Theory on the Production of Schistose Structure in. By John Smith. [Short Summary],	143
Rock-shelter and Shell-mound on the Carrick Shore of Ayrshire. Exploration of a. By John Smith. [Summary],	150
Rock-specimen resembling <i>Lithostrotion</i> from Millport, Cumbrae, exhibited by James Neilson, <i>V.P.</i> ,	143
Rocks, The Microscopical Examination of. By G. R. Thompson. [Abstract],	279, 309
Rothsay Gasworks, Notes on Excavations at the, in 1896-1897. By John Ballantyne. [Abstract],	280, 309
Sanquhar Coal-field, Fossil Plants from the, exhibited by S. Fingland,	301
Schistose Structure in Rocks, A Theory on the Production of. By John Smith. [Short Summary],	143
Section of Carboniferous Strata on the Cal. Ry., at Lissens, near Kilwinning, On a. By John Smith,	122
Sections of Rocks from Clachland Point to the Cock of Arran. By James Thomson, F.G.S. [Plate],	12
"Shale Sockets" of Cement Nodules from Thornliebank. By John Smith,	131
Sharks' Teeth of the Genus <i>Lamna</i> from near Tebessa, Algeria, exhibited by John Renwick,	149
Shelly Rock, from Jaffa, exhibited by Matthew Blair, <i>V.P.</i> , ...	312
Shode Valley in Kent, The. By J. S. M'Lennan. [Short Summary],	139
Silurian Volcanic Rocks of the Southern Uplands of Scotland, The. By John Horne, F.G.S. [Abstract],	285, 310
Slidery Water Head, Arran, List of Fossils from. By William Gunn, F.G.S.,	188
Snar Valley, Lanarkshire, The Permian Outlier of the. By John Smith,	250, 309
South Africa, Gold-bearing Quartz from, exhibited by Joseph Sommerville,	139
Southern Uplands of Scotland, The Silurian Volcanic Rocks of the. By John Horne, F.G.S. [Abstract],	285, 310
South-West Scotland, The Barite Veins of. By John Smith,	232, 301
Spango Granite. By John Smith.	256, 310
Spherulitic (?) Structure in a Trap Dyke in Cumbrae, On a drawn-out. By John Smith. [Title only],	301
<i>Spirorbis</i> Limestone of Ballochmyle, Ayrshire, Holes filled with soft reddish Shale in the. By John Smith. [Short Summary],	298
<i>Spirorbis helicteris</i> , from Dreghorn, Ayrshire, exhibited by John Smith,	300

	PAGE
Star Mica (Phlogopite) with special reference to the Cause of the Asterism. By Joseph Sommerville,	144
Stirlingshire, Papers, Specimens or Excursions :--Camelon, 312; Craigmaddie, 148, 315; Falkirk, 312; Finnich Glen, 316; Killearn,	316
Stone Hammer from an old Gold-mine, Untale, South Africa, sent home by the late Edward Carrick, exhibited by John Smith,	145
Stone Hammers found in Ayrshire, exhibited by John Smith, ...	145
Stratified Rocks of the Shore-line from Clachland Point to the Cock of Arran, On the, By James Thomson, F.G.S.,	12
Stratigraphical Horizons, Graptolites as Indices of. By John Horne, F.G.S. [Summary],	145
Structure of Agates, On the. By Prof. M. Forster-Heddle, F.R.S.E.,	152
Syenitic Granite, from First Cataract, Egypt, exhibited by Matthew Blair, <i>V.P.</i> ,	312
Tebessa, Algeria, Sharks' Teeth of the Genus <i>Lamua</i> from, exhibited by John Renwick,	149
Thornliebank, Renfrewshire, "Shale Sockets" of Cement Nodules from. By John Smith,	131
Troon, Ayrshire, The "China-clay" Mine, and Water-of-Ayr Hone-stone Bed at. By John Smith,	238, 301
Untale, South Africa, Stone Hammer from, exhibited by John Smith,	145
Upper Silurian and O.R.S. Rocks of Carmichael Burn, Lanarkshire, On the, and their bearing on the Origin of the O.R.S. Question. By Peter Macnair. [Summary],	313
Volcanic Ash interbedded with Loose Sand at Crofthead, Neilston, Notes on. By John Mackie, M.E. [Summary],	299
Volcanic Ash with Gravel- and Sand-beds, near Neilston, On. By John Smith [Summary],	301
Volcanic Rocks of Arran, On the Old. By William Gunn, F.G.S., 174, 313	
Volcanic Rocks of the Southern Uplands of Scotland, The Silurian. By John Horne, F.G.S. [Abstract],	285, 310
Water-of-Ayr Hone-stone Bed, The "China-clay" Mine and, at Troon, Ayrshire. By John Smith,	238, 301
Weapons and Implements, Scottish Palæolithic, exhibited by Rev. Frederick Smith,	148
West Bay, Millport, Cumbrae, Rock-specimen from, exhibited by James Neilson, <i>V.P.</i> ,	143
Whiteinch, Report by Committee on Fossil Trees at	151
Whiting Bay, Arran, Felsite from, exhibited by Dr. John Young, F.G.S.,	132

WILLIAM HODGE & CO., PRINTERS,
GLASGOW AND EDINBURGH.