any portion of the traps of Mull, Staffa, or the adjacent islets, were poured out by a subaerial volcano; and these the author considered as placed almost beyond dispute, by the facts brought to light in connection with the tertiary leaf-beds, overflowed by lavas, at the opposite headland of Ardtan, in Mull.

4. Recent Observations on the direction of the Striæ on Rocks and Boulders. By James Smith, Esq.

Mr Smith of Jordanhill next read a paper on the direction of the striæ on rocks and boulders in the West of Scotland.

It had generally been supposed that the cause, whatever it was, which lodged the erratic block beds in their present position had proceeded from the north and west.

This was true with respect to the basin of the Clyde and the east coast of Scotland; but on the western coast of Argyllshire, at Loch Crinan and Appin he had observed that the strike side (stoss seite) of the rocks pointed to the east, and the lee side (lee seite) to the west, shewing that, in these cases, the direction of the moving force was from east to west. Mr Hopkins' recent observations on the direction from which boulders near Oban have been derived, shewed that they also must have come in the same direction.

Mr Smith then observed the occurrence of a large angular granite block on the shore at Helensburgh, which apparently must have been transported over ice. He had also observed at the Island of Cumbra an angular mass of trap, resting on a scratched rock, and split vertically into several pieces; he had observed blocks split in the same manner, which had fallen from the terminus of the glacier of Grindelwald.

The following Donations to the Library were announced:—
Philosophical Transactions of the Royal Society of London. 1851.

Part 2. 4to.

List of Fellows of Do. 30th Nov. 1851. 4to.—*From the Society.*

Memoirs of the Royal Astronomical Society. Vol. XX. 4to.

Notices of Do. Vol. II. 1850–1. Nos. 1–9. 8vo.—*From the Society.*

Quarterly Journal of the Geological Society. Vol. VIII., Part 1. 8vo.—*From the Society.*

- American Journal of Science and Arts. Vol. XIII., No. 37. 8vo.
—*From the Editors.*
- Transactions of the Royal Scottish Society of Arts. Vol. III.,
Part 5. 8vo.—*From the Society.*
- Transactions of the Architectural Institute of Scotland. Vol. II.,
Part 2. 8vo.—*From the Institute.*
- Journal of Agriculture, and Transactions of the Highland and
Agricultural Society of Scotland. N.S. No. 36. 8vo.—
From the Society.
- Astronomical and Magnetical and Meteorological Observations made
at the Royal Observatory, Greenwich, in the year 1850. 4to.
—*From the Royal Society.*
- Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften.
Mathemat. Natur. Classe. Bd. VII., Stück 1 & 2. 8vo.—
From the Academy.
- Flora Batava. No. 167. 4to.—*From the King of Holland.*
- Guide to Northern Archæology, by the Royal Society of Northern
Antiquaries of Copenhagen. Edited by the Right Hon. the
Earl of Ellesmere. 8vo.—*From the Editor.*
- Papers on Railway and Electric Communications, &c., &c. By
Walter White. 12mo.—*From the Author.*
- Rules and Regulations, and List of Members, of the Athenæum.
12mo.—*From the Athenæum.*

Monday, 15th March 1852.

RIGHT REVEREND BISHOP TERROT, Vice-President, in
the Chair.

The following Communications were read :—

1. On the Analysis of some Scottish Minerals.
By Dr A. J. Scott, H.E.I.C.S.

In this paper, the author detailed the analysis of some minerals which were placed at his disposal through the kindness of Dr Anderson, in whose laboratory they were examined by him.

Pectolite.—The first of the series was a mineral found at Storr, in the Island of Skye. It bears a great resemblance to dysclasite