

THE METEORITICAL BULLETIN

THE PERMANENT COMMISSION ON METEORITES OF THE INTERNATIONAL
GEOLOGICAL CONGRESS

No 2

APRIL

Moscow, 1957.

THE FALL OF THE BREITSCHIED
METEORITE

Name: BREITSCHIED

The place of fall or discovery: $\varphi = 50^{\circ}40'11'' N$; $\lambda = 8^{\circ}11'11'' E$.
near the small town of Breitscheid, 8 km to the
west of Herborn, Dill district, Hessen, West Ger-
many.

Date of fall or discovery: 11 August 1956, between 15:30 and
15:45 European mean time.

Class and type: stone meteorite, light grey chondrit.

The number of separate specimens: 1 (?); it measures 5 x 10
x 15 cm.

Total weight: the initial total weight is assumed to be some
what less than 1 kg.

The circumstances of the fall or discovery:
the fall of the meteorite was observed as a ~~mh~~
short, light yellow, somewhat reddish fiery trail. Judging by the
broken branches of trees and the aspect of the hole, it may be
concluded that the meteorite fell from west to east at an angle
of 45° . During the fall, sounds were heard resembling a locomo-
tive letting out steam. No crash was heard. The meteorite was
found 30 min. after its fall. The person who discovered the stone
thought it must have fallen from an aeroplane that had recently
flown past and that it was of no scientific value whatever. The
meteorite remained warm for a long time. As a result of striking
a stone in the ground the meteorite must have broken into 14
pieces at least.

At the end of September the fall of the meteorite became known at the Max-Plank-Institute (Mainz, W.G.) of Chemistry. Measures were taken to collect the fragments that it was still possible to find.

Judging by the fragments and also by the depth of the hole it may be concluded that the initial weight of the stone must have been somewhat less than 1 kg.

The fall of the meteorite was seen by Mrs. Reich (who was standing 45 meters from the spot where it fell), Mr. Reich, Mrs. Fork and Mr. Zenzinger. Günter Thielmann took care of the meteorite and reported the fall.

According to G. Thielmann the chemical composition of the meteorite is as follows:

SiO ₂	40,83 %	Ni	1,69 %
MgO	27,17	Co	0,37
CaO	2,21	Mn	0,33
Al ₂ O ₃	1,04	P	0,20
TiO ₂	0,30	C	0,37
Fe	20,78	S	2,12

The main mass of the meteorite is in the Max-Plank-Institute of Chemistry, where chemical, radiochemical and petrographical investigations are being made. The results of the investigations will be published in the "Geochimica et Cosmochimica Acta".

Sources:

1. A letter written by Prof. F. Paneth (Mainz) to E.L. Krinov dated March 27, 1957,
2. A letter written by Prof. E. Preuss (Munich) to E.L. Krinov dated March 23, 1957.

E. L. K r i n o v,

Vice-President of the Permanent Commission on Meteorites of the International Geological Congress.