

# The Students' Association of Natural Science, Upsala.

## Geological Division.

### Meeting January 21st, 1946.

The following officers were elected:

Mr. P. LJUNGGREN, Secretary.

Miss A.-L. BERGQVIST, Treasurer.

### Meeting February 4th, 1946.

12 persons present.

Dr. S. LANDEREGREN gave an account of »Some data of the geochemistry of iron ores».

### Meeting March 1st, 1946.

10 persons present.

Mr. B. COLLINI spoke on »A vertical parallel structure in the Höör sandstone». Dr. N. G. HÖRNER talked on »Notes on sedimentation analysis».

### Meeting March 21st, 1946.

20 persons present.

Dr. ASTRID CLEVE-EULER lectured on »The recession of the ice in Middle Sweden and the draining at Degerfors».

### Meeting April 12th, 1946.

18 persons present.

Dr. GERD ENEQUIST read a paper on »Eskers, wash plains and recessional moraines of the lower Lule valley».

### Meeting April 25th, 1946.

18 persons present.

Mr. J. EKLUND gave a lecture on »The geology of the Cambrian uranium precipitation».

### Meeting September 23rd, 1946.

The following officers were elected:

Mr. P. LJUNGGREN, Secretary.

Mrs. B. COLLINI, Treasurer.

### Meeting October 17th, 1946.

14 persons present.

Dr. O. MELLIS read a paper on »Das Gefüge des parallelfaserigen Gipses».

**Meeting October 29th, 1946.**

32 persons present.

Seventy-fifth anniversary of the Geological Division.

Mr. S. ELVIUS spoke of »Geologists in Upsala during the 19th century».

**Meeting November 14th, 1946.**

25 persons present.

Dr. ASTRID CLEVE-EULER read a paper on »Ice age geography and Late-Glacial development».

**Meeting December 11th, 1946.**

18 persons present.

Mr. VEIKKO OKKO, Finland, lectured on »Some aspects of the latest studies of unconsolidated deposits in Finland».

**Meeting January 23rd, 1947.**

The following officers were elected:

Mr. P. LJUNGGREN, Chairman.

Mr. B. JÄRNEFORS, Secretary.

Mrs. B. COLLINI, Treasurer.

**Meeting February 7th, 1947.**

29 persons present.

Prof. C. E. WEGMANN, Switzerland, lectured on »'Tectonique superposée', a chapter of the comparative tectonics».

**Meeting February 20th, 1947.**

23 persons present.

Dr. N. G. HÖRNER read a paper on »A find of pike-perch in the varved Glacial clay of Upsala and some reflections on the geography of the Yoldia sea».

**Meeting March 20th, 1947.**

14 persons present.

Prof. H. BACKLUND gave a lecture on »Some points of view on granite and basalt».

**Meeting April 28th, 1947.**

22 persons present.

Prof. ERIK NORIN spoke on »Geological research in Karakoram and Western Tibet».

**Meeting September 23rd, 1947.**

The following officers were elected:

Mr. B. JÄRNEFORS, Chairman.

Mrs. B. COLLINI, Secretary.

Mr. ROBERT NILSSON, Treasurer.

**Meeting September 25th, 1947.**

27 persons present.

Prof. H. BACKLUND read a paper entitled »More about basalt».

**Meeting October 3rd, 1947.**

12 persons present.

Prof. B. POPOFF lectured on »Strahlungskristallisation».

**Meeting October 9th, 1947.**

15 persons present.

Prof. BRUNO SANDER, Innsbruck, spoke on »Neue Gefügeuntersuchungen im Felde und im Labor».

**Meeting October 30th, 1947.**

10 persons present.

Prof. B. POPOFF lectured on »Umbauerscheinungen in erstarrten sphäro-kristallinen Malonamidschmelzen».

**Meeting November 13th, 1947.**

30 persons present.

Mr. N. O. BERGQUIST lectured on »A collision theory for the origin of the moon».

**Meeting November 20th, 1947.**

24 persons present.

Prof. S. MATTSON spoke of »Base exchange illustrated by some simple experiments».

**Meeting December 2nd, 1947.**

34 persons present.

Dr. ASTRID CLEVE-EULER and Dr. I. HESSLAND gave an account of »A newly discovered Tertiary deposit at Åhus».

**Meeting December 11th, 1947.**

15 persons present.

Mr. B. JÄRNEFORS gave an account of the Amsterdam Congress of the International Federation of Students of Geology and Mining. Dr. N. G. HÖRNER reviewed »The Quaternary excursions of the Scandinavian Geological meeting in Norway».

**Meeting January 22nd, 1948.**

17 persons present.

Dr. S. LANDERGREN lectured on »Some aspects on the formation of rocks and iron ores».

**Meeting February 12th, 1948.**

10 persons present.

Prof. B. POPOFF read a paper »Über die Bestimmung des Drillungssinnes und der Achsenwinkelgrösse in gedrillten Faserkomplexen».

**Meeting February 26th, 1948.**

21 persons present.

Dr. N. AMBOLT gave a lecture on »Determinations of gravity in Central Asia».

**Meeting March 5th, 1948.**

25 persons present.

Dr. G. HOPPE read a paper on »Studies on recessional moraines in Norrbotten».

**Meeting March 10th, 1948.**

13 persons present.

Mr. CH. ENBERG spoke about »Some essential minerals of the ceramic industry and their use».

**Meeting March 18th, 1948.**

27 persons present.

Dr. P. THORSLUND and Mr. BERTIL WÆRN spoke of »The boring at Kullatorp, an insight into the stratigraphy of Kinnekulle».

**Meeting April 2nd, 1948.**

16 persons present.

Prof. G. PEHRMAN gave a lecture on »A sphalerite-spessartite-gahnite-paragenesis in pegmatite on Kimito, Finland».

**Meeting April 22nd, 1948.**

19 persons present.

Prof. ERIK LJUNGNER lectured on »The shape of the surface of the crystalline basement along the margin of the Caledonian mountain range in Sweden». (Cf. Vol. 31, p. 401.)

The speaker gave an account of the surface of primary rocks, preserved under sediments and now disclosed by borings in a section along the Laisan valley, Lappland. According to the stratigraphy, an eastern shore was absent in Pre-Cambrian as well as Cambrian time, and the transgression was probably coming from the east. From the deformations of the sedimentary layers it appears that the present slope of the primary rock surface — from high levels on the foreland to lower levels under the marginal part of the mountain range — was formed during the mountain building movements as a Caledonian flexure.

In southern Jämtland, an eastern shore at the margin of the mountain range was early substantiated (WIMAN) as well as a transgression from the west recurring in three cycles during Cambrian-Ordovician. According to ASKLUND the inclination of the primary rock surface toward the west formed a Sub-Cambrian wave-cut cliff and the strongly broken relief preserved in the adjacent Lockne region represents the Sub-Cambrian surface of the foreland, which should not have been reached by the levelling wave action forming the Sub-Cambrian »Strandflat» and the cliff.

The speaker showed, basing his aspects generally on THORSLUND's material, that the present relief of the primary rocks of Lockne is in most part a result of Caledonian tectonic movements with Lake Lockne lying in a very important depression, which coincides with an anomaly of gravity. The reconstructed pre-sedimentary relief was possibly formed when the aged land-surface with its mighty cover of weathering products came into the state of erosion. The Lockne area has probably occupied the western slope of an epirogenetic ascending »swell». At the time of the Pre-Cambrian transgression, younger valley-cuts existed reaching down to fresh granite. Correlative layers in the Storsjö area are stratified disconformably over Eo-Cambrian quartzite. Such movements, which caused

the above-mentioned disconformity and contemporaneously created a land ridge toward the east, which at times limited the transgressions, are absent in the Laisan section.

The speaker demonstrated by means of a generalized cross section that the mountain range in the eastern part of the section does not belong to the geosyncline, the lowering of the primary rock surface being caused essentially by the weight of the overthrust nappes.

**Meeting May 22nd, 1948.**

23 persons present.

Prof. H. BACKLUND spoke on »Some points of view on the problem of ore formation in Pre-Cambrian and later».

**Meeting September 14th, 1948.**

The following officers were elected:

Mrs. B. COLLINI, Chairman.

Mr. N. MARKLUND, Secretary.

Mr. S. LJUNGGREN, Treasurer.

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