

CLAY MINERALS BULLETIN

OCTOBER, 1950

No. 4

No further papers having been received from the discussion on "Geology and Mineralogy of Clays," the present number is made up of papers from the meeting on "Clay Minerals and Colloid Chemistry," as well as a first instalment of those on "The Less Common Clay Minerals." This number also marks a new departure by including an account of recent proceedings of the French Clay Group.

Fourth International Congress of Soil Science.

This Congress was held in Amsterdam, July 24th, to August 1st, 1950, with a post-Congress excursion (15 days) through Holland and Belgium. The programme included a "Section of Clay Minerals," with the following subjects for discussions:

<i>General lecture:</i>	<i>Invited:</i>
The electrochemistry of clay minerals in relation to pedology	Prof. C. E. Marshall
<i>Subjects:</i>	
1. The structure of clay minerals	Dr. G. W. Brindley
2. Genesis and synthesis of clay minerals and their mutual transformation	(Prof. I. D. Sedletskij)
3. (a) Interstratified clay minerals	Dr. W. F. Bradley
(b) Influence of shape and interstratification on X-ray diagrams of clay minerals	Dr J. Mering
4. Differential thermal analysis of clay minerals	Dr R. C. Mackenzie
5. Crystal structure and ion exchange	Dr S. B. Hendricks
6. Solvation of clay minerals in relation of crystal structure	Dr D. M. C. MacEwan

In addition to the "Section of Clay Minerals" the following subject occurs under the heading of "Section of Soil Chemistry":

2. "Determination of exchange capacity and exchangeable ions
(a) Clay minerals in soils."

There was also a meeting of an informal group on the "Technology of Clay Minerals," with the following provisional programme:

General lecture:

General review of the technology of clay minerals, by Dr R. E. Grim.

Subjects:

Fixation of organic matter on clay minerals.
Changes which occur on heating clays.
Changes which occur on firing clay minerals.
Clay minerals as catalysts.

Papers given at the Congress will be published in the Congress Proceedings, which will be sent to all members. The subscription for the Congress costs \$15, or the equivalent in Dutch guilders. Full information is available from the Secretary of the Organising Committee, Dr P. A. Rowaan, 3 van Hallstraat, Groningen, Netherlands.

Commission des Argiles.

This, the French equivalent of our Group, is a Government organisation, presided over by Mr Lanquine. Like the Clay Minerals Group, it has recently been holding twice-yearly meetings, with papers centered around a special subject, followed by general papers. We have received a full report of the meetings held in Paris on 15th June, 1949, devoted to Rheology of Clay Suspensions, and a summary of this report will be found in this number. The circular which came with the report states that there was a lively discussion on the subject. In view of the interest there shown, especially by members with a technical background, it has been decided that the subject will be taken up again for discussion at a subsequent meeting. May we remind our members that they will be welcomed at these meetings, which are usually held in Paris? Papers from members of our Group can also be considered for presentation there. Further information can be obtained from Mr S. Henin, Station Centrale d'Agronomie, Versailles.

During the Paris meeting just mentioned, measures were discussed for organising a clay section during the International Geological Congress of 1952, in Algiers. Members of foreign clay groups will be able to attend these meetings without joining the Congress, as in London in 1948. It was also decided that the Commission is to have a reneotyped Bulletin, to be published by the C.N.R.S.

Reprinting of early numbers of the Bulletin.

The reprinting of nos. 1 and 2 of our Bulletin is now completed, the Council of the parent Society having kindly agreed to make up any deficit which may arise. The cost to members is 7s. 6d. for the two numbers, which are printed together. Those who have already sent in an application will already have received the reprinted numbers. Others are reminded that they may still apply, making use of the form on the inside back page of the cover.

Monograph on Clay Minerals.

This work has expanded considerably beyond the original conception, with a consequent delay in getting it put into final form. It is now however complete and in the hands of the printers. It will

be published as a bound volume of some 330 pages, and should constitute a handbook of great value for all who are interested in the use of X-ray methods for identifying clay minerals.

Notes for Authors.

The *Bulletin* is an informal medium of information, and we have no desire to lay down fixed rules for presentation of papers. These notes represent ways in which authors may, if they wish, help the Editor, without much extra trouble for themselves.

References in the *Bulletin* are given by citing the author's name and the year. At the end of the article the names are listed in alphabetical order (and in order of date under any single name); the exact style can be seen by inspecting the other pages of this issue. It would save much trouble if authors would give their references in this standard form.

Black-and-white illustrations must be kept down to a minimum, and the Editor may reduce their number or request the author to pay for them. Half-tone and colored illustrations must be paid for by the author.

The Editor has not got extensive facilities for redrawing contributors' illustrations, and it will be a great help if they can draw them in a form suitable for direct reproduction. Neat freehand illustrations are quite acceptable: but they *must* be in black ink on white paper (ordinary blue ink, or pencil, are unsuitable, but "jet black," or a black Biro would do, as well as Indian ink); lettering should for preference be typewritten, or neatly handwritten in block capitals; and straight lines should be drawn with a ruler. It is desirable that illustrations should be on a separate page from the text.

Advertisements in the Bulletin.

Those of our readers with industrial interests are reminded that they can help the Group, and bring benefit to themselves, by advertising in the *Bulletin*. The rates for advertisements are: whole page, £3; half page, £1 15s.; quarter page, £1 (for one insertion).

Papers for subsequent publication.

The following papers are in the hands of the Editor, and will be published in the next number of the *Bulletin*.

Observations on the chlorites of iron ores, by S. Caillere and S. Henin.
The properties and identification of saponite and bowlingite, by S. Caillere and S. Henin.

The texture and surface area of kieselguhrs after various treatments, by S. Teichner and E. Pernoux.

The clay minerals in the Keuper Marl, by D. B. Honeyborne.

Some chloritic clay minerals of unusual type, by I. Stephen and D. M. C. MacEwan.

Metabentonites from Slovakia, by R. Barta, M. Cap, and V. Satava.

D. M. C. M.