On various minerals (Anatase, &c.), from the Binnenthal.

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[Read November 17, 1903.]

Anatase.—Some very brilliant and highly modified crystals of a light brown colour were obtained from the Ofenhorn in 1903. The largest crystal measures nearly an inch across. The form {313} is largely developed; other forms present are {100}, {110}, {111}, {331}, {221}, {223}, {335}, {112}, {113}, {117}, and also a new {*h k l*} plane close to (110) and (221), which is probably (24.14.7). These crystals resemble Seligmann's fig. 3 [1].

In 1902 some much smaller, dark brown crystals of a different habit, with the form {117} largely developed, were obtained from another part of the Ofenhorn. They resemble Klein's fig. 3 [2]. Three new forms were observed, namely {553}, {35.3.5}, and {40.3.5}.

(110) : (553) = 13° 16′ (calculated), 13° 20′ (measured).

(35.3.5) in the zones [100, 335], [553, 532].

(40.3.5) „ „ [100, 335], [010, 801].

The other forms observed were {100}, {110}, {111}, {221}, {335}, {801}, {401}, {532}, and {313}, all of which are represented by only small faces.

Laumontite.—Simple greyish-white crystals, some 1½ inches long, were found for the first time on the Ofenhorn in September, 1903. The forms present are *m* (110), *e* (2̄01), and *b* (010).

	Calculated.	Measured.
mm‴	93° 44′	93° 40′
m′e	66 30	66 15

Albite.—In August, 1903, I found a simple, well-developed crystal in the white dolomite at the Lengenbach quarry. I believe this to be the first time that albite has been noticed as occurring in dolomite. The forms present are: *c* {001}, *x* {1̄01}, and *b* {010}, large; *m* {110} and *M* {1̄10}, small; and *f* {130}, narrow. On removal of a fragment the following measurements were obtained:—

	Calculated[1]	Measured.
cm	65° 17′	65° 10′
cb	86 24	86 20

[1] Zeits. Kryst. Min., 1886, vol. xi, p. 337.

[2] Neues Jahrb. Min., 1875, p. 337, plate XI.

Hyalophane.—At the annual meeting of the Mineralogical Society in 1901, I exhibited some twinned crystals of hyalophane, twinned according to the Baveno law of orthoclase. In August, 1903, I found in the Lengenbach quarry two groups with crystals twinned according to the Carlsbad law of orthoclase :—

	Calculated. Baumhauer[1].	Measured. Solly.
$(001):(\overline{001})$	51° 28′	51° 6′
$(\bar{1}01):(\overline{\bar{1}01})$	48 22½	48 15

Three new forms were observed on some small, simple crystals, namely {380}, {$\bar{2}$12}, and {$\bar{2}$11} :—

	Calculated.	Measured.
$(010):(380)$	31° 41′	32° 0′
$(\bar{1}01):(\bar{2}12)$	14 8	14 3

The face ($\bar{2}$11) lies in the zones [$\bar{1}$01, $\bar{1}$10], [010, $\bar{2}$01].

[1] Zeits. Kryst. Min., 1903, vol. xxxvii, p. 605.