

The following Table gives the optic axial angle in air as obtained by different observers.

2*E*.

59° 30'	Miller.	
60° 30'		von Lang.
46° 32'	red	} Des Cloizeaux.
47° 30'	yellow	
48° 46'	violet	
59° 45'	Li	} Kalkowsky.
60° 56'	Na	

The optic axial angle obtained by myself was about 60°, agreeing with that of Miller.

The crystals of struvite received from Mr. Robinson had been grown by him from the micro-organisms of (*A*) yeast, (*B*) Cambridge water, and (*C*) tartar from human teeth.

(*A*) presented a combination of the forms *a s p t m n*, of which only the following faces were developed:—

<i>a</i> (100) ($\bar{1}00$)	<i>t</i> (111) ($\bar{1}\bar{1}\bar{1}$)
<i>s</i> ($\bar{1}01$) ($\bar{1}0\bar{1}$)	<i>m</i> (110) ($\bar{1}\bar{1}0$)
<i>p</i> (0 $\bar{1}\bar{1}$) (01 $\bar{1}$)	<i>n</i> ($\bar{2}10$) ($\bar{2}\bar{1}0$)

This development may be described either as a combination of sphenoidal hemihedrism with hemimorphism along the macrodiagonal *a*, or as a tetartohedrism resulting from a combination of sphenoidal and parallel-faced hemihedrism; but the faces *s* and *p* constitute the semi-forms which do not correspond in position with the two faces of *p* by which they are accompanied. Sadebeck has concluded from the etched figures that struvite is not “tetrahedral.”

(*B*) exhibited new faces *k* (120), *i* ($5\bar{1}0$) in the prism-zone which were hemihedrally disposed like *m* and *n*; the reflections were not good, but the planes were clearly developed.

010 : 120	calculated $15^{\circ}14\frac{1}{2}'$	measured $15^{\circ}-15^{\circ}45'$
$\bar{1}00 : \bar{2}10$	„ $20^{\circ}9\frac{1}{2}'$	„ $19^{\circ}45'-20^{\circ}30'$