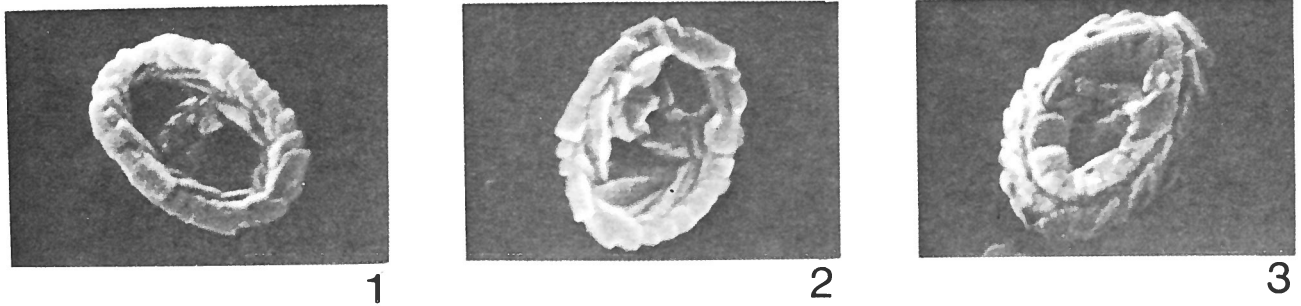


**Archaeozygodiscus koesseni** BOWN, 1985



Figs. 1-3 - *Archaeozygodiscus koesseni* sp. nov.

Fig. 1) Holotype, UCL - 2040-33; distal view, x 16,300; sample E136.  
Fig. 2) Paratype, UCL - 2040-29; distal view, x 15,800; sample E136.  
Fig. 3) Paratype, UCL - 2036-25; proximal view, x 15,000; sample E136.

**Description:**

Diagnosis: A species of *Archaeozygodiscus* with the short axis of the ellipse spanned by a bar constructed from a number of calcite elements. The centre of the bar has a circular hole which may or may not be a spine base.

Dimensions: Length holotype 1.9 microns, width 1.4 microns.

**Remarks:**

Superficially similar to the younger form *Zygodiscus erectus* (DEFLANDRE) LEZAUD but a number of features are thought to warrant the recognition of a new genus and species. The elliptical rim of *A. koesseni* possesses a typical loxolith structure as do the coccoliths of *Zygodiscus*, however, the elements are imbricating in the opposite direction and the rim includes an additional inner cycle of tangential elements. *Archaeozygodiscus* is also distinctive in its diminutive size of 1.9 to 3.2 microns.

**Type level:**

Kossener Schichten; Ch. marshi ammonite Zone, Rhaetian.

Range: Upper suessi Zone, Norian to marshi Zone, Rhaetian.

**Type locality:**

Weissloferbach, near Kossen, Austria.

**Depository:**

Holotype: Neg. no. UCL - 2040-33; plate 1, fig. 1.

Paratypes: Neg. no. UCL - 2040-29; plate 1, fig. 2.

Neg. no. UCL - 2028-10; plate 1, fig. 3.

**Author:**

Bown P., 1985, p. 32; pl. 1, figs. 1-3.

**Reference:**

Archaeozygodiscus gen. nov. and other Triassic coccoliths. INA newsl., vol. 7, no. 1, pp. 32-35, 1 pl.