

# Plates

Autor(en): **[s.n.]**

Objektyp: **Appendix**

Zeitschrift: **Eclogae Geologicae Helvetiae**

Band (Jahr): **72 (1979)**

Heft 1

PDF erstellt am: **21.09.2024**

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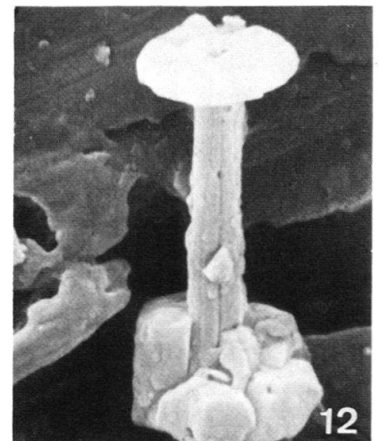
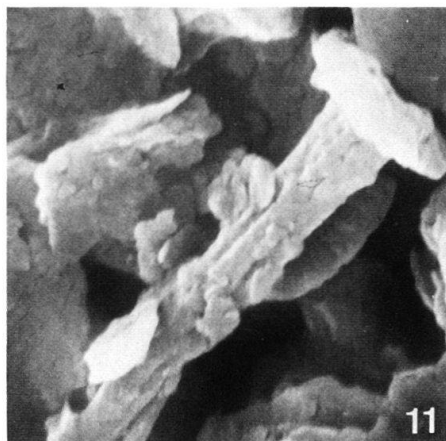
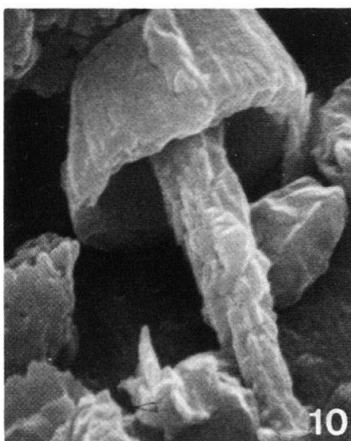
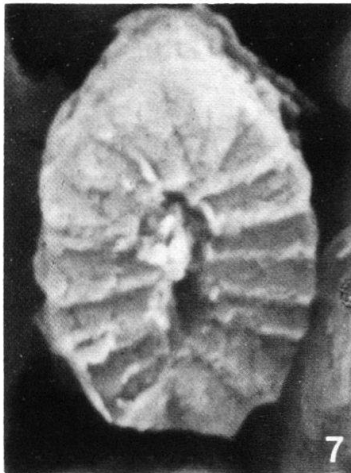
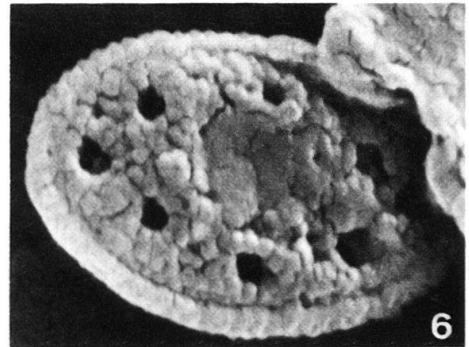
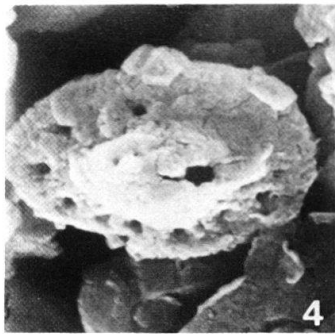
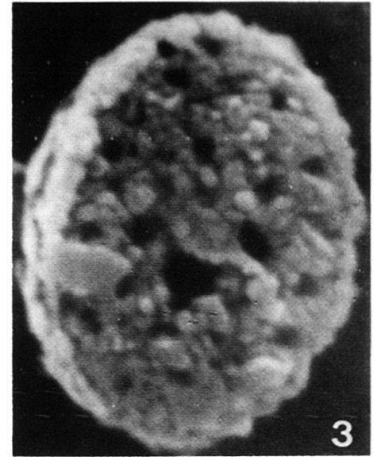
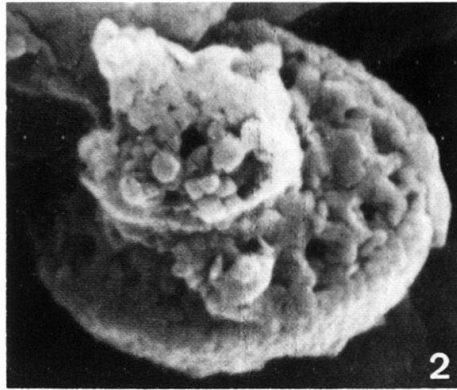
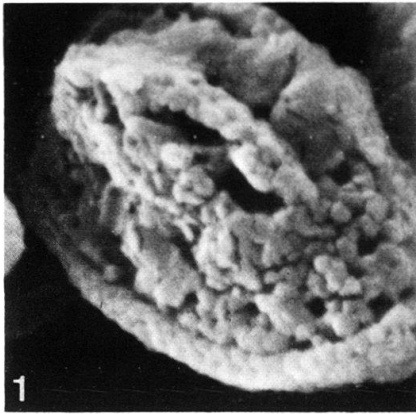
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**Plate 1**

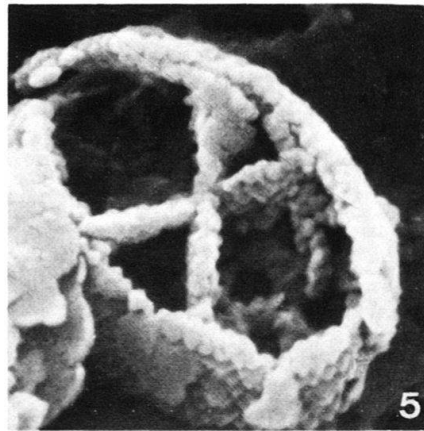
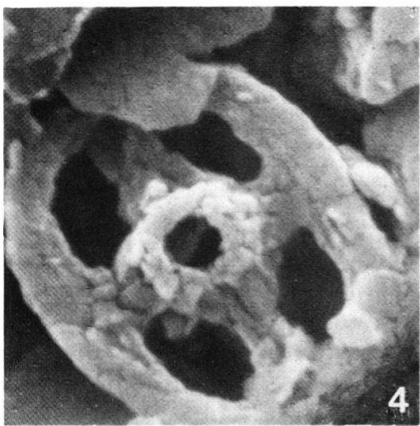
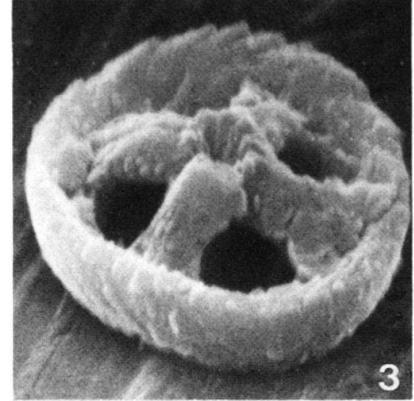
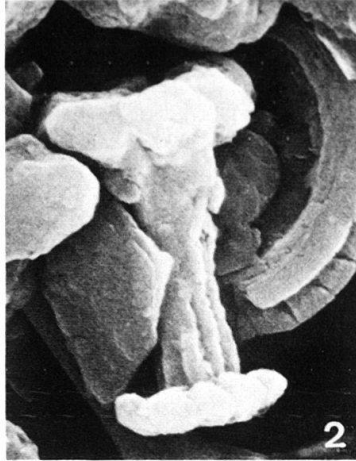
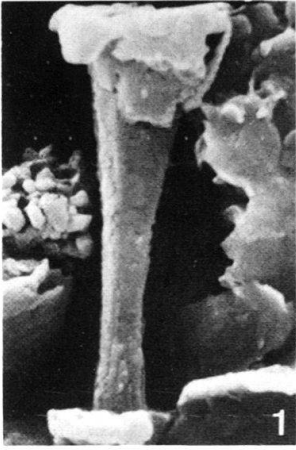
- Fig. 1-4      *Anfractus harrisonii* sp. n.  
1: Holotype, distal view. Upper Oxford Clay, Gamlingay Borehole at 70 feet (21.34 m). SAC 200. SEM 72/3639,  $\times 32,000$ .  
2: Distal view. Upper Oxford Clay, Gamlingay Borehole at 64 feet (19.51 m). SAC 197. SEM 72/3697,  $\times 24,000$ .  
3: Proximal view. Upper Oxford Clay, Gamlingay Borehole at 70 feet (21.34 m). SAC 200. SEM 72/3647,  $\times 30,000$ .  
4: Distal view. Upper Oxford Clay, Haddenham Borehole at 230 feet (70.10 m). SAC 107. SEM 72/3828,  $\times 9,000$ .
- Fig. 5      *Staurorhabdus quadriarculus* (NOËL 1965)  
Proximal view. Lower Kimmeridge Clay, Haddenham Borehole at 80 feet (24.38 m). SAC 22. SEM 72/3552,  $\times 24,500$ .
- Fig. 6      *Anfractus variabilis* sp. n.  
Holotype, distal view. Middle Oxford Clay, Gamlingay Borehole at 140 feet (42.68 m). SAC 238. SEM 73/4949,  $\times 30,000$ .
- Fig. 7, 8      *Crepidolithus crassus* (DEFLANDRE 1954)  
7: Proximal view. Upper Oxford Clay, Gamlingay Borehole at 70 feet (21.34 m). SAC 200. SEM 72/3650,  $\times 24,500$ .  
8: Distal view. Upper Oxford Clay, Gamlingay Borehole at 70 feet (21.34 m). SAC 200. SEM 72/3618,  $\times 10,000$ .
- Fig. 9      *Discorhabdus tubus* NOËL 1965  
Lateral view. Upper Oxford Clay, Gamlingay Borehole at 90 feet (27.44 m). SAC 210. SEM 72/3467,  $\times 16,500$ .
- Fig. 10      *Parhabdolithus marthae* DEFLANDRE 1954  
Lateral view. Upper Oxford Clay, Gamlingay Borehole at 63 feet (19.21 m). SAC 196. SEM 71/1711 (pol),  $\times 22,000$ .
- Fig. 11, 12      *Carinolithus clavatus* (DEFLANDRE 1954)  
11: Lateral view. Upper Oxford Clay, Gamlingay Borehole at 68 feet (20.73 m). SAC 199. SEM 72/3681,  $\times 8,500$ .  
12: Oblique lateral view. Upper Lias (Toarcian) *levesquei* Zone, *moorei* Subzone, Dorset. [NGRSY 489945]. SAC 3023. SEM 76/12611,  $\times 8,000$ .



**Plate 2**

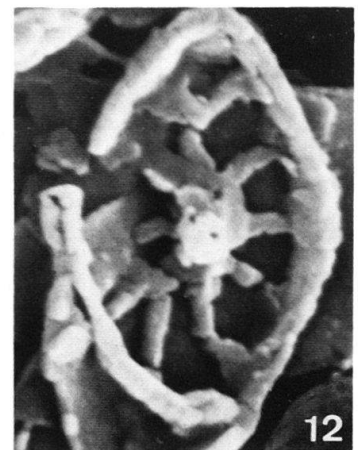
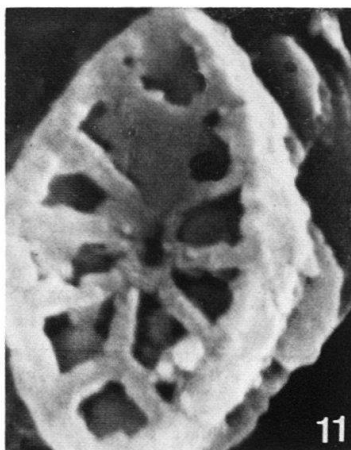
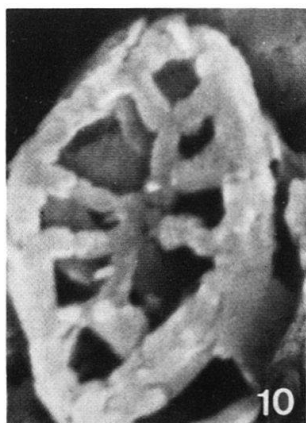
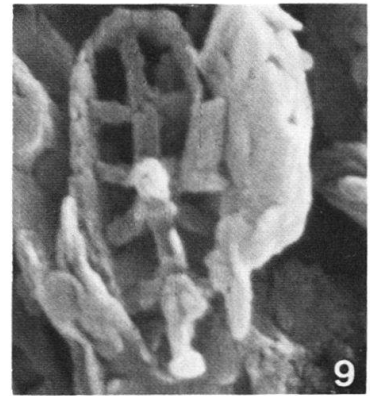
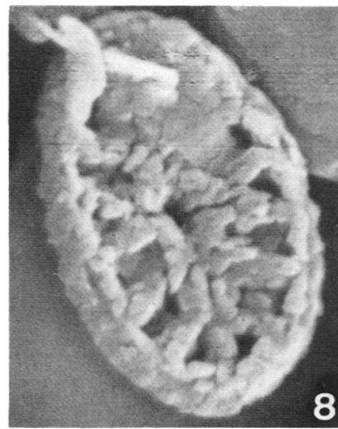
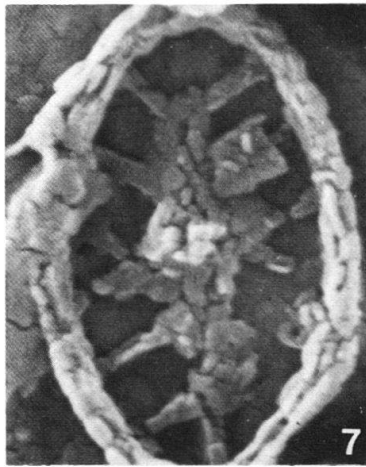
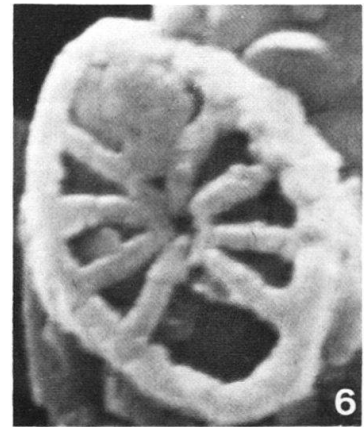
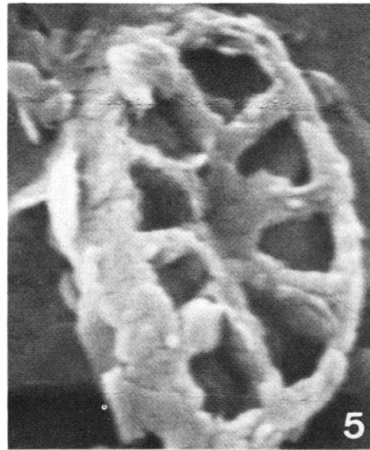
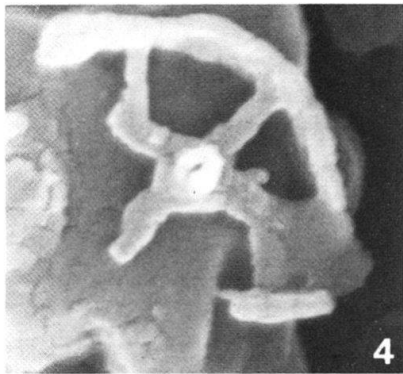
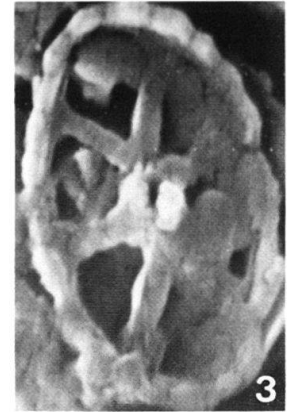
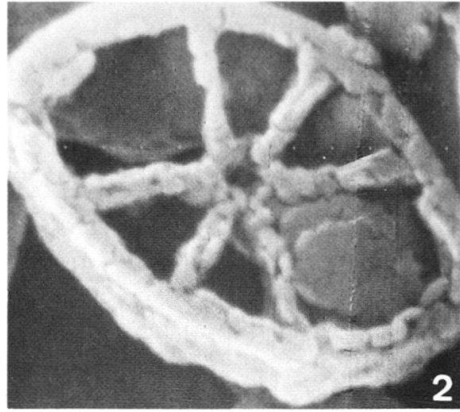
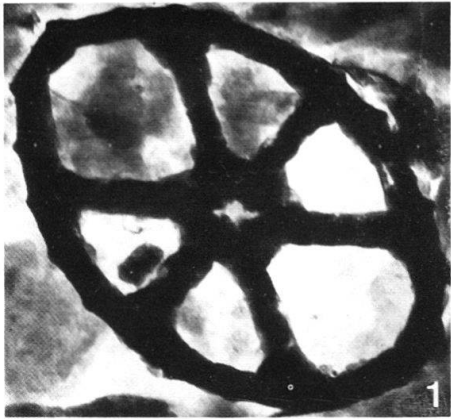
- Fig. 1            *Carinolithus superbus* (DEFLANDRE 1954)  
Lateral view. Upper Lias (Toarcian) *lavesquei* Zone, *moorei* Subzone, Dorset.  
[NGRSY 489945]. SAC 3023. SEM 76/12621,  $\times 8,000$ .
- Fig. 2            *Carinolithus sceptrum* (DEFLANDRE 1954)  
Lateral view. Upper Oxford Clay, Gamlingay Borehole at 110 feet (33.53 m). SAC 220.  
SEM 75/11347,  $\times 8,500$ .
- Fig. 3            *Actinozygus crux* (DEFLANDRE & FERT 1952)  
Distal view. Lower Kimmeridge Clay, Haddenham Borehole at 50 feet (15.24 m).  
SAC 7. SEM 72/3606,  $\times 16,500$ .
- Fig. 4            *Staurorhabdus quadriarcullus* (NOËL 1965)  
Distal view. Upper Oxford Clay, Gamlingay Borehole at 70 feet (21.34 m). SAC 200.  
SEM 72/3630,  $\times 25,500$ .
- Fig. 5, 6        *Neococcolithes dubius* (DEFLANDRE 1952)  
5: Proximal view. Middle Oxford Clay, Gamlingay Borehole at 140 feet (42.68 m).  
SAC 238. SEM 73/4946,  $\times 16,500$ .  
6: Proximal view. Upper Oxford Clay, Gamlingay Borehole at 62 feet 8 inches  
(19.10 m). SAC 195. SEM 72/3684,  $\times 22,500$ .
- Fig. 7, 8        *Zeugrhabdotus erectus* (DEFLANDRE 1954)  
7: (The upper specimen) distal view, with the central opening half of the width.  
Upper Oxford Clay, Dorset; sample number 219G (MEDD 1971, p. 837). EM 1644,  
 $\times 27,000$ .  
8: (The right hand specimen) distal view, with the central opening one third of the  
width. Locality and horizon as for Figure 7. EM 1650,  $\times 36,000$ .
- Fig. 7, 8        *Zeugrhabdotus bussoni* (NOËL 1956)  
7: (The lower specimen) distal view. See above for further details.  
8: (The left hand specimen) distal view. See above for further details.





**Plate 3**

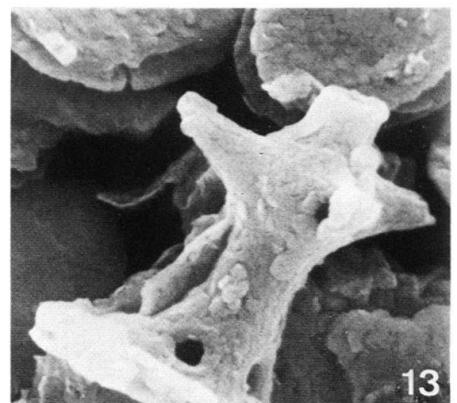
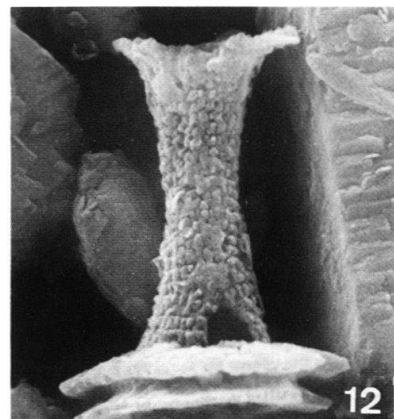
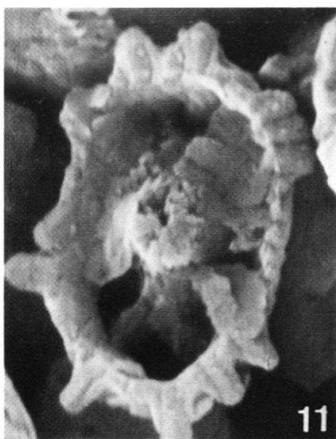
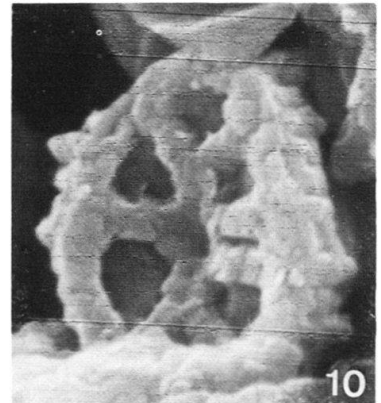
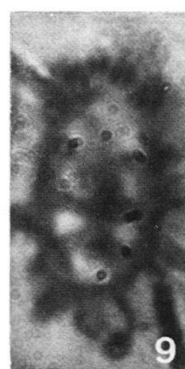
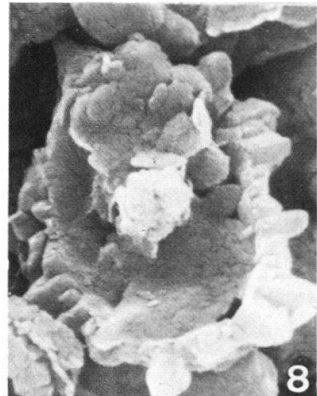
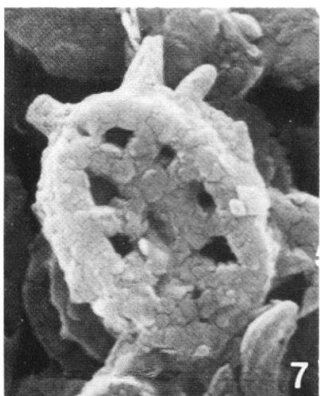
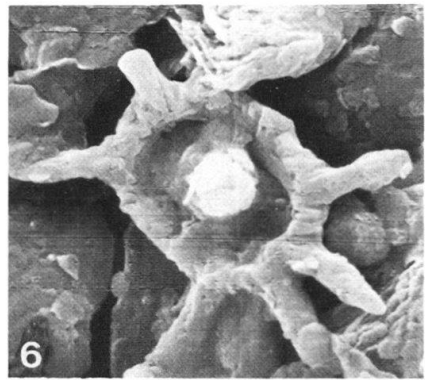
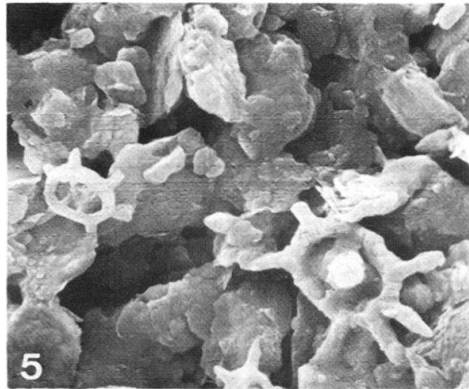
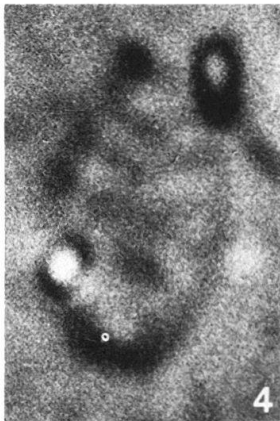
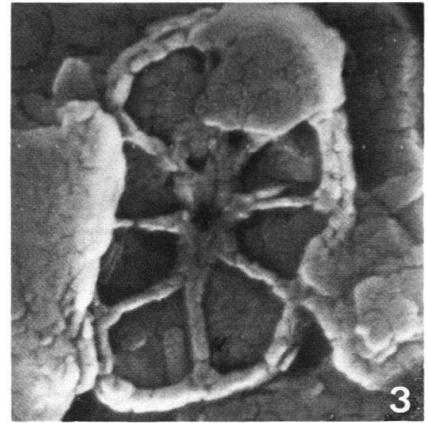
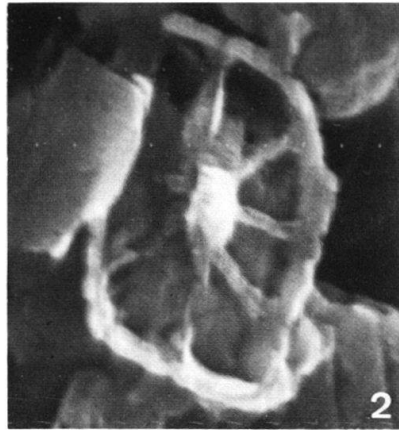
- Fig. 1-3      *Actinozygus geometricus* (GORKA 1957)  
1: Unreplicated transmission electron micrograph. Lower Kimmeridge Clay, Ely, Cambridgeshire; sample number 40M (MEDD 1971, p. 832). EM 365,  $\times 24,000$ .  
2: Proximal view. Upper Oxford Clay, Gamlingay Borehole at 70 feet (21.34 m). SAC 200. SEM 72/3635,  $\times 32,000$ .  
3: Distal view. Lower Kimmeridge Clay, Haddenham Borehole at 80 feet (24.39 m). SAC 22. SEM 72/3554,  $\times 24,000$ .
- Fig. 4      *Stradnerlithus bifurcatus* NOËL 1973  
Distal view. Lower Ampthill Clay, Ampthill Borehole at 80 feet (24.38 m). SAB 879. SEM 74/8779,  $\times 30,000$ .
- Fig. 5      *Stradnerlithus asymmetricus* (ROOD, HAY & BARNARD 1971)  
Proximal view. Upper Oxford Clay, Gamlingay Borehole at 68 feet (20.73 m). SAC 199. SEM 72/3668,  $\times 26,000$ .
- Fig. 6      *Actinozygus fragilis* ROOD & BARNARD 1972  
Proximal view. Upper Oxford Clay, Gamlingay Borehole at 68 feet (20.73 m). SAC 199. SEM 76/12392,  $\times 16,500$ .
- Fig. 7, 8      *Stradnerlithus comptus* BLACK 1971  
7: Distal view. Upper Oxford Clay, Gamlingay Borehole at 90 feet (27.44 m). SAC 210. SEM 72/3466,  $\times 16,500$ .  
8: Proximal view. Upper Oxford Clay, Gamlingay Borehole at 68 feet (20.73 m). SAC 199. SEM 72/3676,  $\times 12,750$ .
- Fig. 9      *Stradnerlithus pauciramosus* BLACK 1973  
Distal view. Upper Oxford Clay, Haddenham Borehole at 230 feet (70.12 m). SAC 107. SEM 72/3704,  $\times 22,500$ .
- Fig. 10      *Stradnerlithus rhombicus* (STRADNER & ADAMIKER 1966)  
Proximal view. Middle Oxford Clay, Millbrook section, near Ampthill, Bedfordshire. SAB 175. SEM 76/12394,  $\times 17,000$ .
- Fig. 11, 12      *Stradnerlithus rotatus* (ROOD, HAY & BARNARD 1971)  
11: Proximal view. Upper Oxford Clay, Gamlingay Borehole at 68 feet (20.73 m). SAC 199. SEM 76/12395,  $\times 17,000$ .  
12: Distal view. Middle Oxford Clay, Millbrook section, near Ampthill, Bedfordshire. SAB 175. SEM 76/12519,  $\times 18,000$ .



**Plate 4**

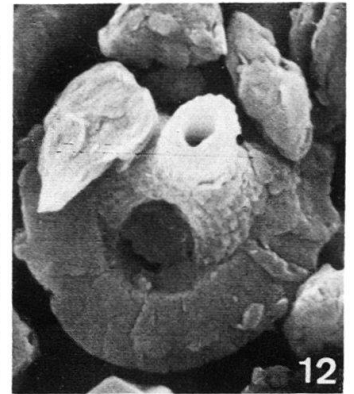
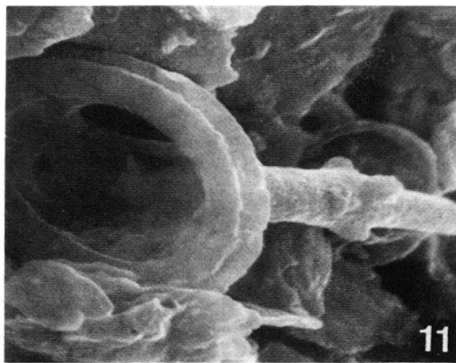
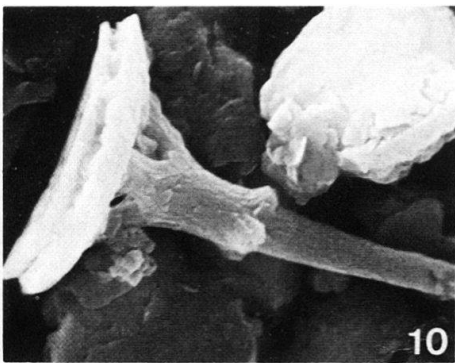
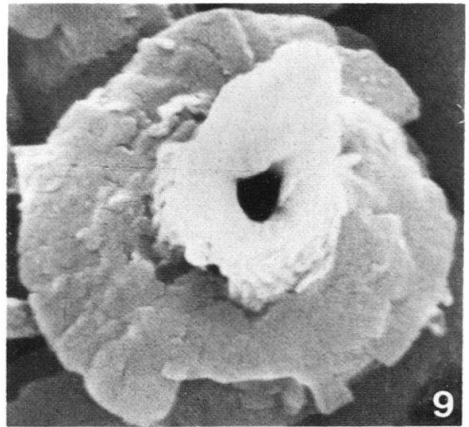
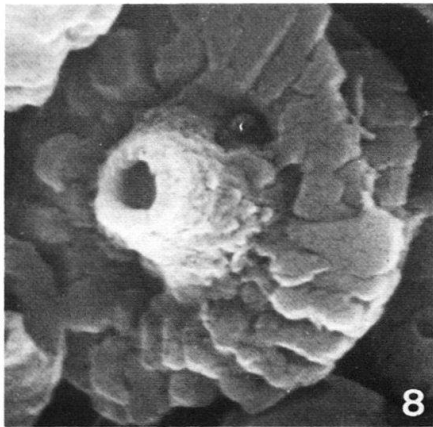
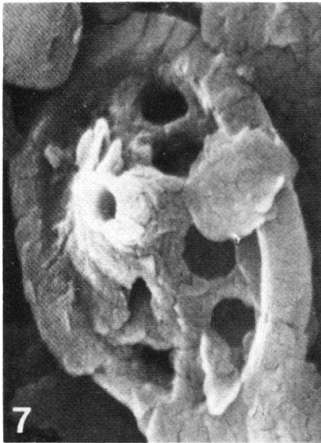
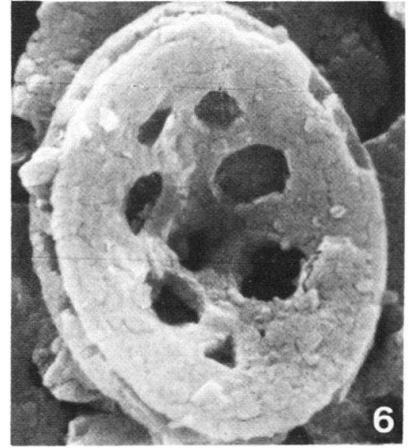
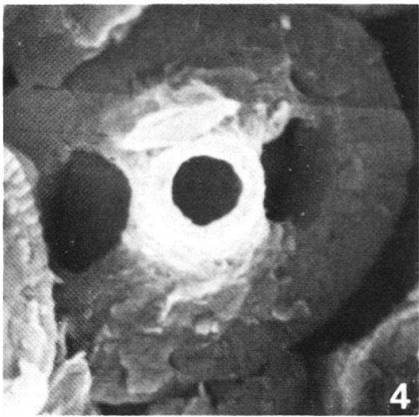
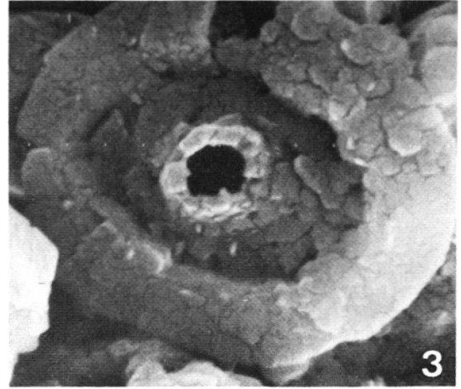
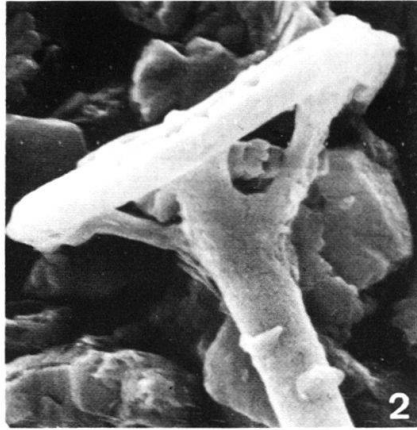
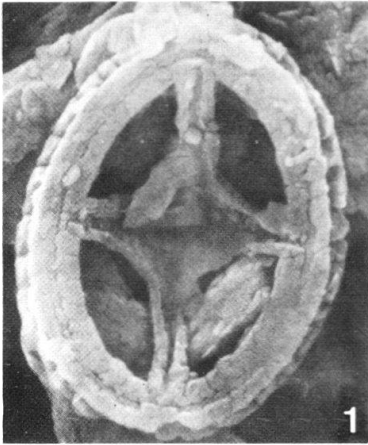
- Fig. 1 *Diadorhombus scutulatus* (MEDD 1971)  
Distal view. Upper Oxford Clay, Gamlingay Borehole at 70 feet (21.34 m). SAC 200. SEM 72/3653,  $\times 20,000$ .
- Fig. 2, 3 *Stradnerlithus octoradiatus* sp. n.  
2: Holotype, distal view. Lower Kimmeridge Clay, Haddenham Borehole at 80 feet (24.39 m). SAC 22. SEM 72/3570,  $\times 22,000$ .  
3: Proximal view. Middle Oxford Clay, Gamlingay Borehole at 140 feet (42.68 m). SAC 238. SEM 72/3732,  $\times 20,500$ .
- Fig. 4 *Stradnerlithus sattinii* sp. n.  
Holotype, optical micrograph. Lower Ampthill Clay, Ampthill Borehole at 60 feet (18.29 m). SAB 854-C1.  $\times 19,000$ .
- Fig. 5 *Stephanolithion bigoti* DEFLANDRE 1939 *bigoti* sp. n.  
The two smaller specimens on the left hand side, illustrating both distal and proximal views. Upper Oxford Clay, Gamlingay Borehole at 64 feet (19.51 m). SAC 197. SEM 72/3694,  $\times 2,250$ .
- Fig. 5, 6 *Stephanolithion bigoti* DEFLANDRE 1939 *maximum* ssp. n.  
5: The larger specimen on the right hand side, distal view. [See above for further details.]  
6: An enlarged view of the above specimen. SEM 72/3695,  $\times 7,500$ .
- Fig. 7, 8, 10, 11 *Stephanolithion carinatum* sp. n.  
7: Proximal view. Upper Oxford Clay, Gamlingay Borehole at 68 feet (20.73 m). SAC 199. SEM 72/3680,  $\times 11,500$ .  
8: Holotype, distal view. Upper Oxford Clay, Gamlingay Borehole at 70 feet (21.34 m). SAC 200. SEM 72/3631,  $\times 12,500$ .  
10: Proximal view. Upper Oxford Clay, Gamlingay Borehole at 68 feet (20.73 m). SAC 199. SEM 72/3665,  $\times 16,750$ .  
11: Distal view. Upper Oxford Clay, Gamlingay Borehole at 68 feet (20.73 m). SAC 199. SEM 72/3659,  $\times 14,500$ .
- Fig. 9 *Stephanolithion speciosum* DEFLANDRE 1954 *elongatum* ssp. n.  
Holotype, optical micrograph. Middle Jurassic, Upper Fullers Earth, Horsecombe Vale. Borehole No. 15 [NGR ST75556225] at 105 feet (32.00 m). SAC 1039-C1.  $\times 5,000$ .
- Fig. 12 *Podorhabdus grassei* NOËL 1965  
Lateral view. Upper Oxford Clay, Gamlingay Borehole at 90 feet (27.44 m). SAC 210. SEM 72/3471,  $\times 9,500$ .
- Fig. 13 *Podorhabdus rahla* NOËL 1965  
Lateral view. Upper Oxford Clay, Gamlingay Borehole at 70 feet (21.34 m). SAC 200. SEM 72/3634,  $\times 10,500$ .





**Plate 5**

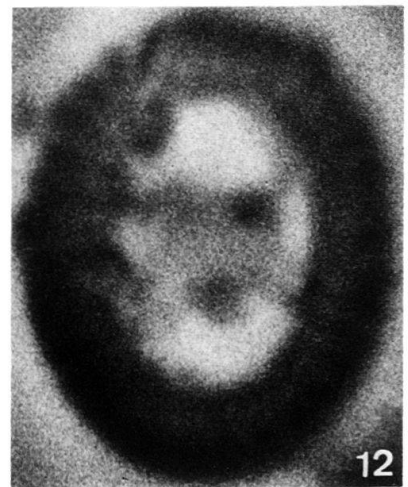
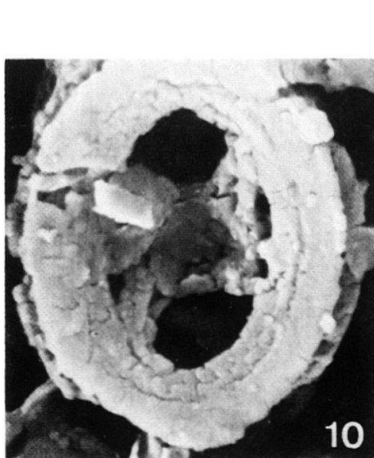
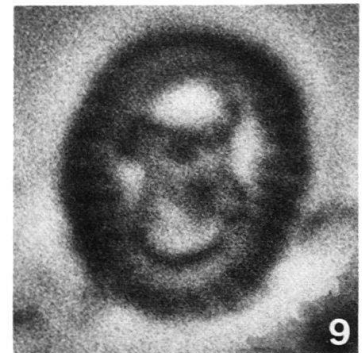
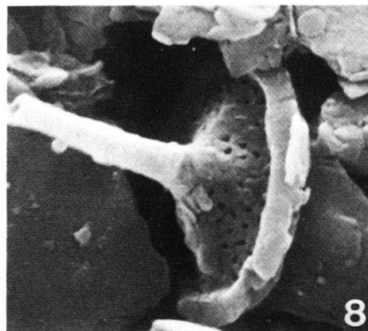
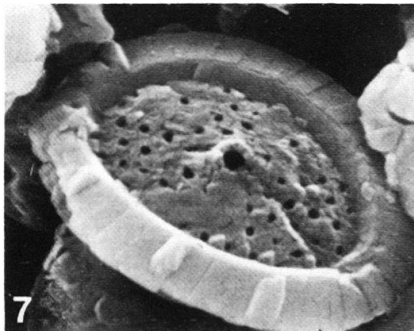
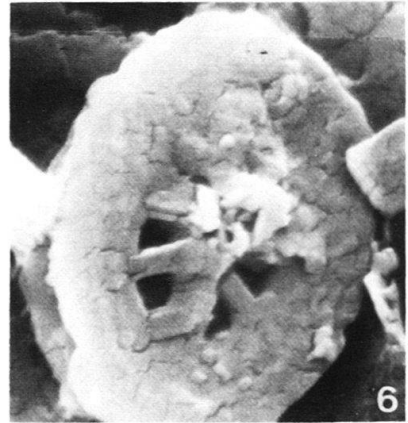
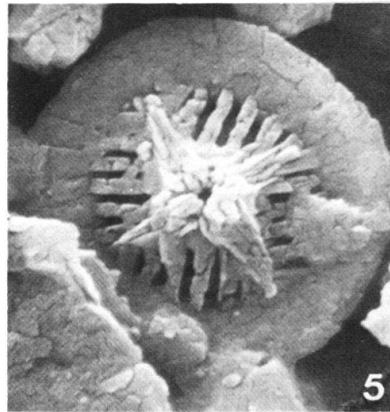
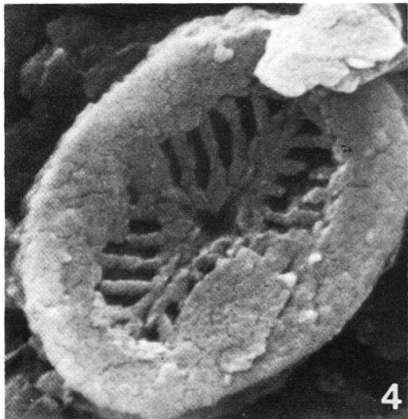
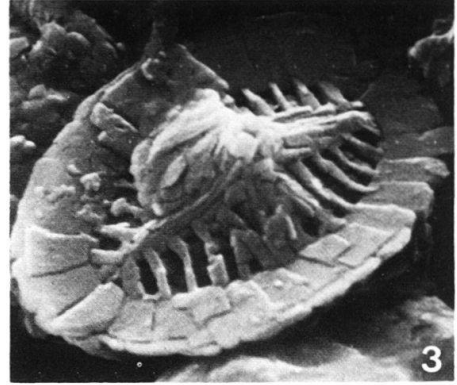
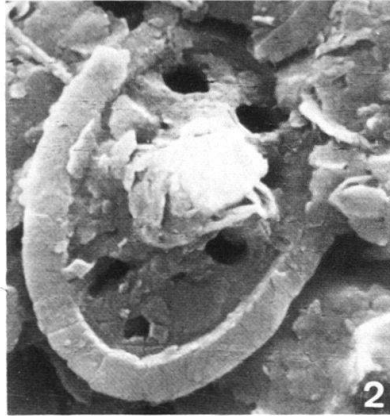
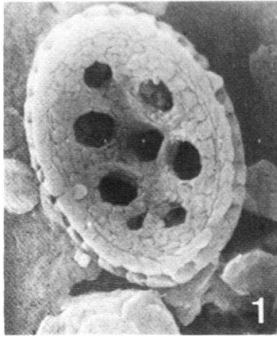
- Fig. 1, 2      *Podorhabdus cylindratus* NOËL 1965  
1: Proximal view. Upper Oxford Clay, Gamlingay Borehole at 70 feet (21.34 m). SAC 200. SEM 72/3615,  $\times 13,000$ .  
2: Lateral view. Lower Kimmeridge Clay, Haddenham Borehole at 80 feet (24.39 m). SAC 22. SEM 72/3560,  $\times 15,000$ .
- Fig. 3      *Cleistorhabdus moorei* sp. n.  
Holotype, distal view. Upper Oxford Clay, Gamlingay Borehole at 68 feet (20.73 m). SAC 199. SEM 72/3701,  $\times 14,500$ .
- Fig. 4, 8, 9, 12      *Hemipodorhabdus conjugatus* sp. n.  
4: Distal view. Upper Oxford Clay, Gamlingay Borehole at 70 feet (21.34 m). SAC 200. SEM 72/3649,  $\times 15,000$ .  
8: Distal view. Ampthill Clay, Gamlingay Borehole at 57 feet (17.38 m). SAC 188. SEM 72/3780,  $\times 17,500$ .  
9: Distal view. Upper Oxford Clay, Gamlingay Borehole at 68 feet (20.73 m). SAC 199. SEM 72/3671,  $\times 16,000$ .  
12: Holotype, distal view. Upper Oxford Clay, Gamlingay Borehole at 70 feet (21.34 m). SAC 200. SEM 72/3632,  $\times 13,500$ .
- Fig. 5-7      *Octopodorhabdus decussatus* (MANIVIT 1959)  
5: Proximal view. Upper Oxford Clay, Haddenham Borehole at 218 feet (66.46 m). SAC 98. SEM 72/3775,  $\times 17,000$ .  
6: Proximal view. Upper Oxford Clay, Gamlingay Borehole at 70 feet (21.34 m). SAC 200. SEM 72/3633,  $\times 13,500$ .  
7: Distal view. Middle Oxford Clay, Gamlingay Borehole at 140 feet (42.68 m). SAC 238. SEM 72/3736,  $\times 12,000$ .
- Fig. 10, 11      *Podorhabdus rahla* NOËL 1965  
10: Lateral view. Upper Oxford Clay, Gamlingay Borehole at 90 feet (27.44 m). SAC 210. SEM 72/3459,  $\times 8,500$ .  
11: Oblique proximal view. Upper Oxford Clay, Gamlingay Borehole at 70 feet (21.34 m). SAC 200. SEM 72/3617,  $\times 8,500$ .



**Plate 6**

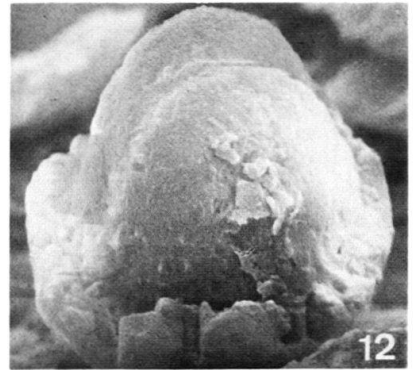
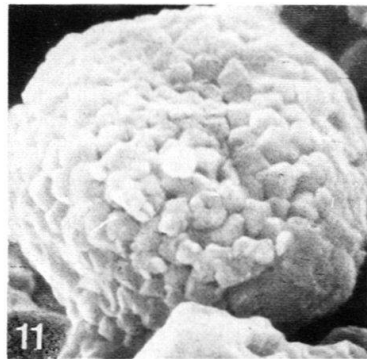
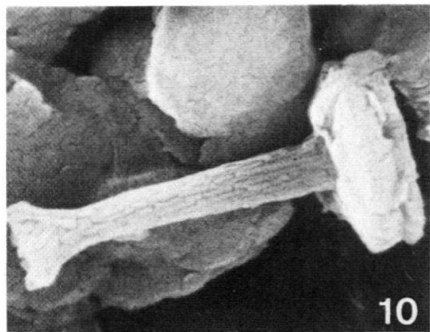
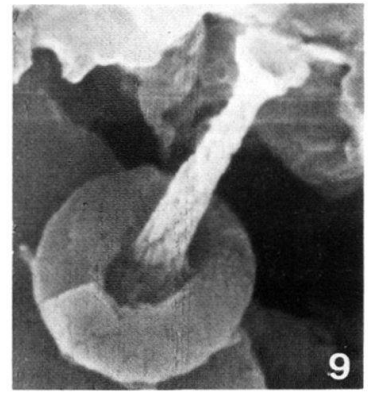
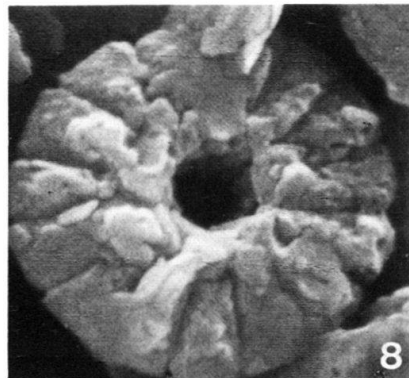
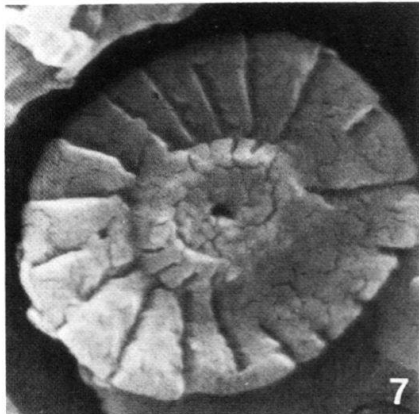
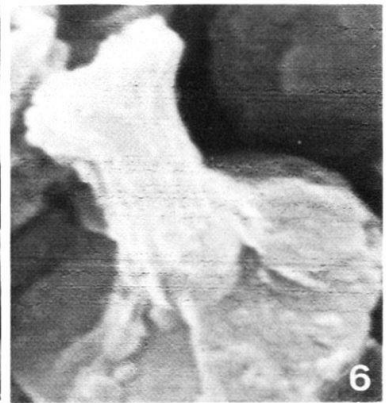
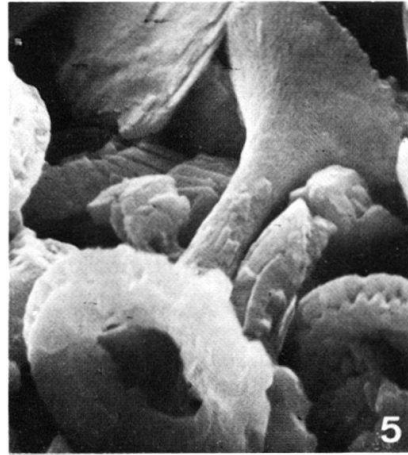
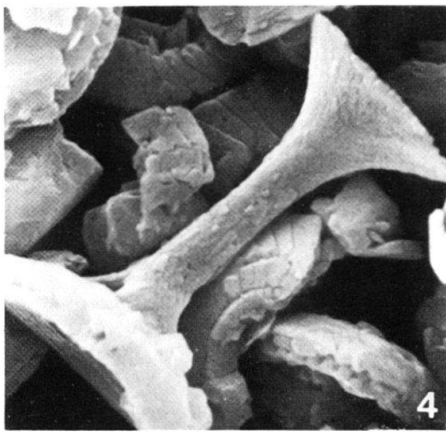
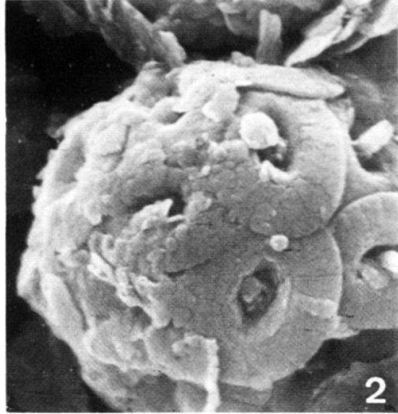
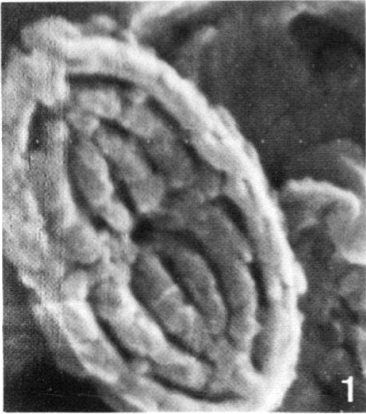
- Fig. 1 *Octopodorhabdus decussatus* (MANIVIT 1959)  
Proximal view. Upper Oxford Clay, Gamlingay Borehole at 63 feet (19.21 m).  
SAC 196. SEM 72/3824,  $\times 4,000$ .
- Fig. 2 *Dekapodorhabdus typicus* sp.n.  
Holotype, distal view. Upper Oxford Clay, Gamlingay Borehole at 64 feet (19.51 m).  
SAC 197. SEM 72/3691,  $\times 17,000$ .
- Fig. 3 *Polypodorhabdus escaigi* NOËL 1965  
Distal view. Middle Oxford Clay, Gamlingay Borehole at 140 feet (42.68 m). SAC 238.  
SEM 73/4947,  $\times 16,000$ .
- Fig. 4, 5 *Polypodorhabdus madingleyensis* BLACK 1968  
4: Proximal view. Middle Oxford Clay, Gamlingay Borehole at 140 feet (42.68 m).  
SAC 238. SEM 73/5122,  $\times 18,000$ .  
5: Distal view. Middle Oxford Clay, Gamlingay Borehole at 140 feet (42.68 m).  
SAC 238. SEM 73/5135,  $\times 13,000$ .
- Fig. 6 *Polypodorhabdus beckii* sp.n.  
Distal view. Ampthill Clay, Ampthill Borehole at 80 feet (24.38 m). SAB 879.  
SEM 74/8783,  $\times 17,500$ .
- Fig. 7, 8 *Ethmorhabdus gallicus* NOËL 1965  
7: Distal view. Lower Kimmeridge Clay, Haddenham Borehole at 80 feet (24.39 m).  
SAC 22. SEM 72/3559,  $\times 11,000$ .  
8: Oblique distal view. Lower Kimmeridge Clay, Haddenham Borehole at 80 feet  
(24.39 m). SAC 22. SEM 72/3565,  $\times 8,500$ .
- Fig. 9-12 *Tetrapodorhabdus shawensis* sp.n.  
9: Distal view, optical micrograph. Middle Jurassic (Bathonian) Upper Fullers Earth,  
Faulkland Borehole at 202 feet (61.59 m) [NGRST714539]. SAC 2951. Slide  
No. MPK 1176 in the IGS slide collection, Leeds,  $\times 8,000$ .  
10: Paratype, proximal view. Upper Oxford Clay, Gamlingay Borehole at 68 feet  
(20.73 m). SAC 199. SEM 76/12396,  $\times 17,000$ .  
11: Holotype, distal view. Middle Jurassic, Bridport Sands, Dorset. [NGRSY 484892].  
SAC 2874. SEM 76/12399,  $\times 17,000$ .  
12: Proximal view, optical micrograph. (details as for Fig. 9).





**Plate 7**

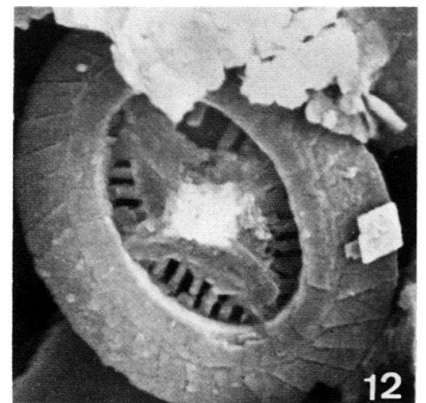
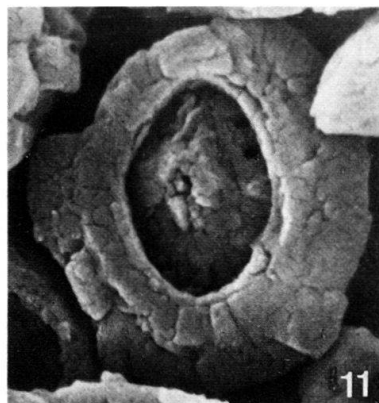
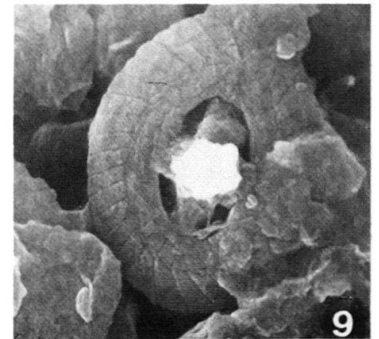
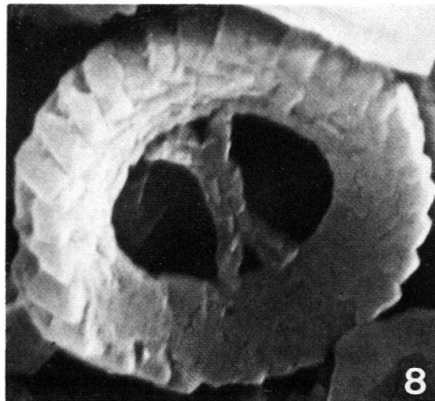
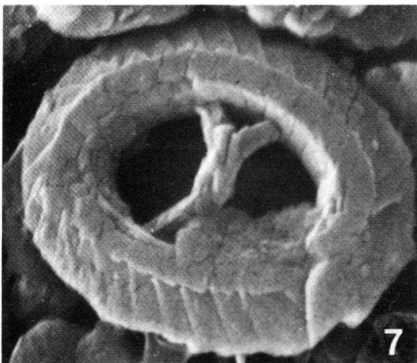
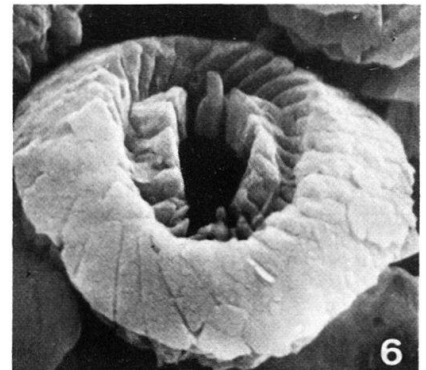
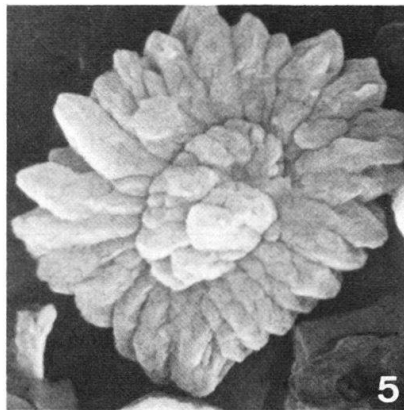
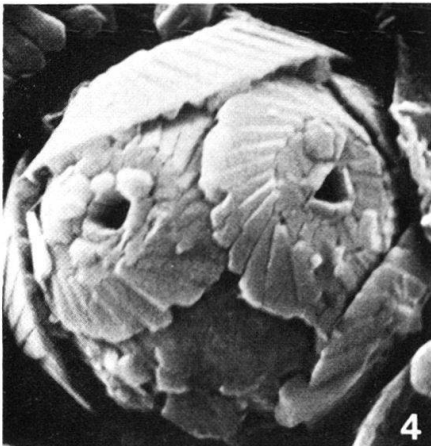
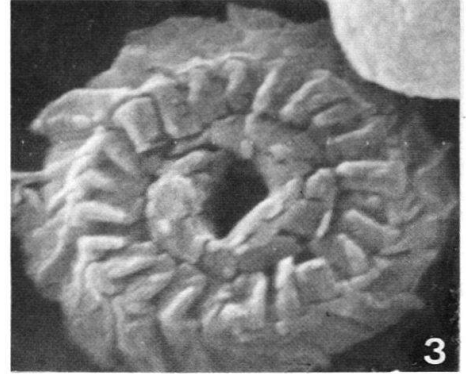
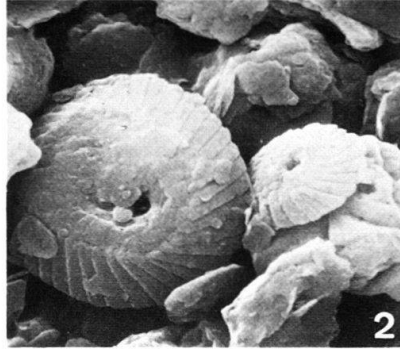
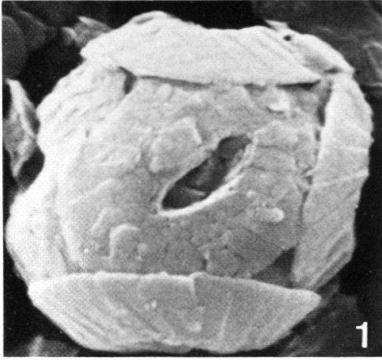
- Fig. 1 *Sollasites bipolaris* ROOD, HAY & BARNARD 1971  
Proximal view. Upper Oxford Clay, Gamlingay Borehole at 64 feet (19.51 m). SAC 197. SEM 72/3690,  $\times 29,000$ .
- Fig. 2, 3 *Palaeopontosphaera dubia* NOËL 1965  
2: Cocosphere, showing variation in the central structure of the coccoliths. Upper Oxford Clay, Gamlingay Borehole at 68 feet (20.73 m). SAC 199. SEM 72/3674,  $\times 10,500$ .  
3: Distal view. Upper Oxford Clay, Gamlingay Borehole at 70 feet (21.34 m). SAC 200. SEM 72/3640,  $\times 13,500$ .
- Fig. 4, 5 *Discorhabdus patulus* (DEFLANDRE 1954)  
4: Lateral view. Lower Kimmeridge Clay, Haddenham Borehole at 80 feet (24.39 m). SAC 22. SEM 72/3555,  $\times 8,500$ .  
5: Oblique proximal view of the same specimen. SEM 72/3556,  $\times 8,500$ .
- Fig. 6-8 *Discorhabdus* sp. 2  
6: Distal view. Upper Oxford Clay, Gamlingay Borehole at 68 feet (20.73 m). SAC 199. SEM 72/3660,  $\times 18,000$ .  
7: (?) Proximal view. Middle Oxford Clay, Gamlingay Borehole at 140 feet (42.68 m). SAC 238. SEM 72/3737,  $\times 17,500$ .  
8: Distal view. Upper Oxford Clay, Gamlingay Borehole at 68 feet (20.73 m). SAC 199. SEM 72/3682,  $\times 22,500$ .
- Fig. 9, 10 *Discorhabdus longicornis* sp. n.  
9: Holotype, oblique distal view. Upper Oxford Clay, Gamlingay Borehole at 64 feet (19.51 m). SAC 197. SEM 72/3692,  $\times 17,500$ .  
10: Lateral view. Middle Oxford Clay, Gamlingay Borehole at 140 feet (42.68 m). SAC 238. SEM 73/5136,  $\times 14,000$ .
- Fig. 11 *Thoracosphaera deflandrei* KAMPTNER 1956  
Sphere. Upper Oxford Clay, Haddenham Borehole at 230 feet (70.12 m). SAC 107. SEM 72/3826,  $\times 3,000$ .
- Fig. 12 *Schizosphaerella punctulata* DEFLANDRE & DANGEARD 1938  
Oblique view of a sphere. Middle Jurassic, Upper Fullers Earth, Horsecombe Vale Borehole No. 15 [NGRST75556225] at 104 feet 8 inches-105 feet 7 inches (31.90-32.20 m). SAC 1038. SEM 73/5978,  $\times 6,000$ .



**Plate 8**

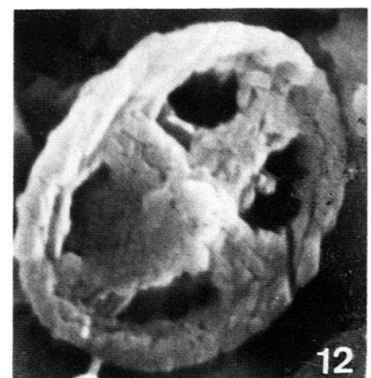
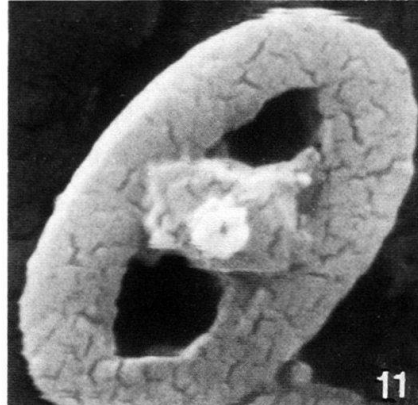
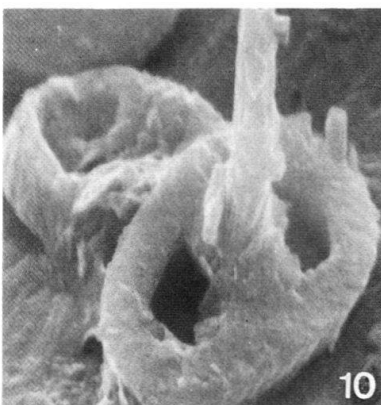
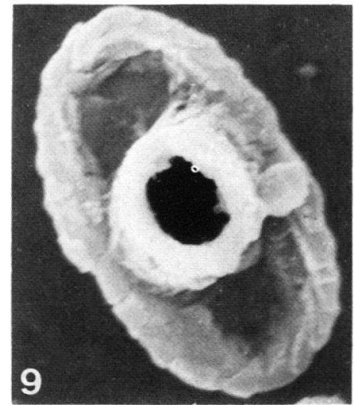
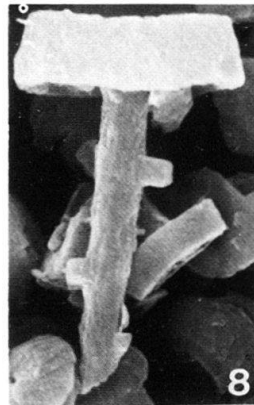
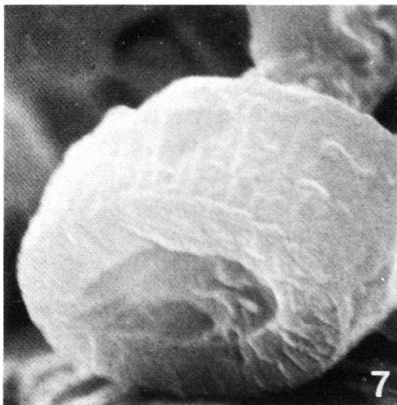
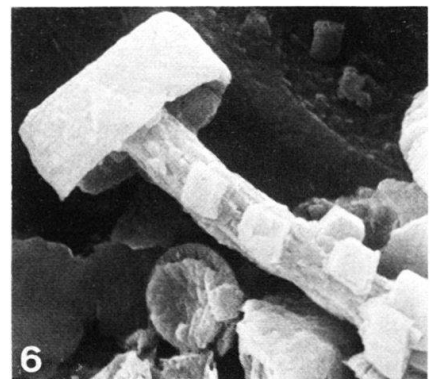
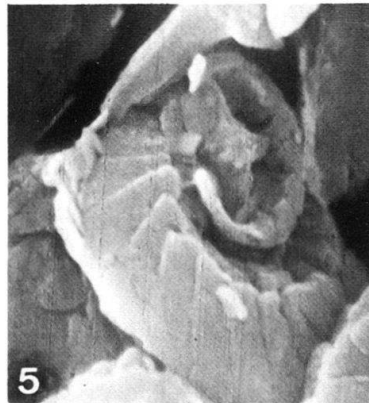
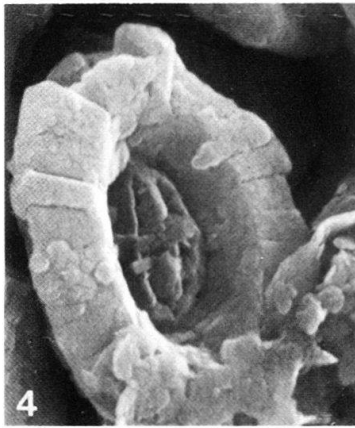
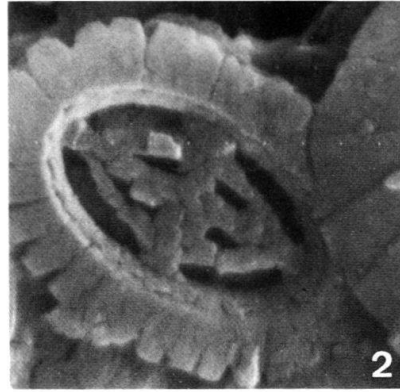
- Fig. 1, 2      *Ellipsagelosphaera britannica* (STRADNER 1963)  
1: Cocosphere. Upper Oxford Clay, Gamlingay Borehole at 68 feet (20.73 m). SAC 199. SEM 72/3666,  $\times 12,000$ .  
2: Distal view of the two size variants of this species. Middle Oxford Clay, Gamlingay Borehole at 140 feet (42.68 m). SAC 238. SEM 73/4950,  $\times 6,000$ .
- Fig. 3, 4      *Actinosphaera deflandrei* NOËL 1965  
3: Distal view. Upper Oxford Clay, Gamlingay Borehole at 90 feet (27.44 m). SAC 210. SEM 72/3458,  $\times 25,000$ .  
4: Cocosphere. Lower Kimmeridge Clay, Haddenham Borehole at 80 feet (24.39 m). SAC 22. SEM 72/3569,  $\times 10,500$ .
- Fig. 5      *Cyclagelosphaera margereli* NOËL 1965  
Distal view. Ampthill Clay, Haddenham Borehole at 190 feet (57.93 m). SAC 80. SEM 72/3739,  $\times 10,000$ .
- Fig. 6      *Calolithus martelae* NOËL 1965  
Distal view. Upper Oxford Clay, Gamlingay Borehole at 90 feet (27.44 m). SAC 210. SEM 72/3470,  $\times 12,000$ .
- Fig. 7, 8      *Ellipsagelosphaera reinhardtii* (ROOD, HAY & BARNARD 1971)  
7: Distal view. Lower Kimmeridge Clay, Haddenham Borehole at 80 feet (24.39 m). SAC 22. SEM 72/3551,  $\times 14,500$ .  
8: Proximal view. Lower Kimmeridge Clay, Haddenham Borehole at 80 feet (24.39 m). SAC 22. SEM 72/3564,  $\times 16,000$ .
- Fig. 9-12      *Ellipsagelosphaera crucicentralis* MEDD 1971  
9: Distal view. Upper Oxford Clay, Gamlingay Borehole at 63 feet (19.21 m). SAC 196. SEM 72/3823,  $\times 5,000$ .  
10: Distal view. Upper Oxford Clay, Gamlingay Borehole at 70 feet (21.34 m). SAC 200. SEM 72/3625,  $\times 17,000$ .  
11: Distal view. Ampthill Clay, Haddenham Borehole at 110 feet (33.54 m). SAC 38. SEM 72/3707,  $\times 14,500$ .  
12: Distal view. Upper Oxford Clay, Gamlingay Borehole at 68 feet (20.73 m). SAC 199. SEM 76/12392,  $\times 13,000$ .





**Plate 9**

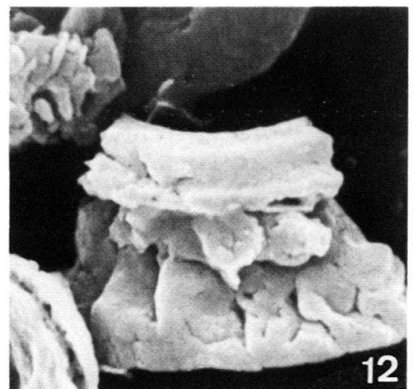
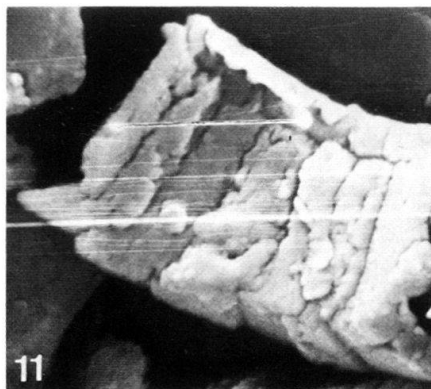
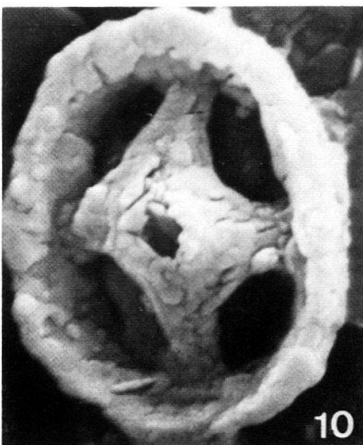
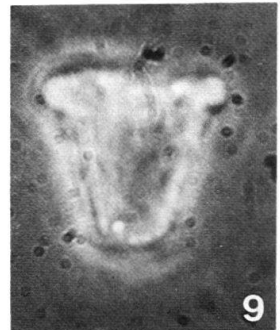
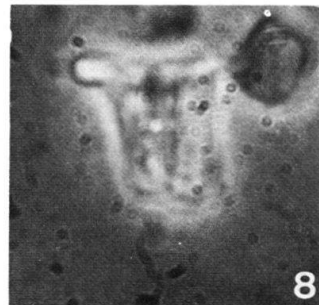
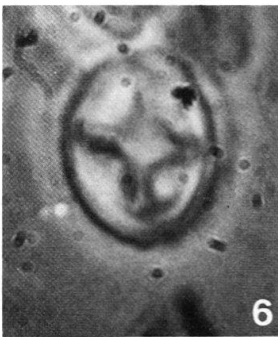
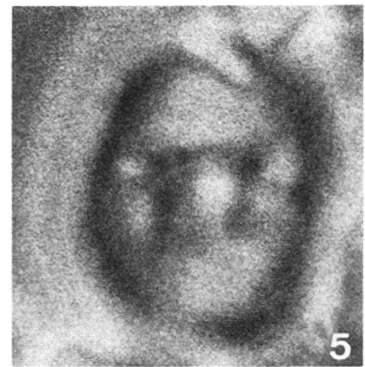
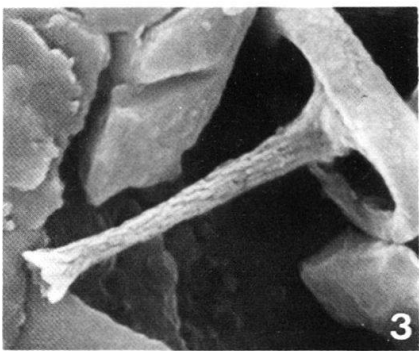
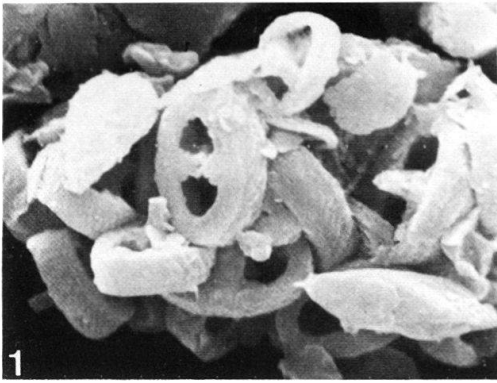
- Fig. 1 *Sollasites horticus* (STRADNER, ADAMIKER & MARESCH 1966)  
Distal view. Middle Oxford Clay, Gamlingay Boreholes at 140 feet (42.68 m).  
SAC 238. SEM 72/3738,  $\times 17,000$ .
- Fig. 2-5 *Sollasites lowei* (BUKRY 1969)  
2: Distal view. Middle Oxford Clay, Gamlingay Borehole at 140 feet (42.68 m).  
SAC 238. SEM 72/3733,  $\times 24,000$ .  
3: Distal view. Upper Oxford Clay, Gamlingay Borehole at 64 feet (19.51 m).  
SAC 197. SEM 72/3698,  $\times 24,000$ .  
4: Distal view. Upper Oxford Clay, Gamlingay Borehole at 70 feet (21.34 m).  
SAC 200. SEM 72/3610,  $\times 12,000$ .  
5: Distal view. Upper Oxford Clay, Haddenham Borehole at 230 feet (70.12 m).  
SAC 107. SEM 72/3706,  $\times 18,000$ .
- Fig. 6-8 *Parhabdolithus pseudobelgicus* sp. n.  
6: Holotype, lateral view. Upper Oxford Clay, Gamlingay Borehole at 64 feet  
(19.51 m). SAC 197. SEM 76/12274,  $\times 6,000$ .  
7: Holotype, oblique proximal view. *Ibid.* SEM 76/12277,  $\times 8,000$ .  
8: Paratype, lateral view. Upper Oxford Clay, Gamlingay Borehole at 68 feet  
(20.73 m). SAC 199. SEM 76/12293,  $\times 8,000$ .
- Fig. 9 *Tubirhabdus patulus* ROOD, HAY & BARNARD 1972 ex PRINS 1969  
Distal view. Upper Oxford Clay, Haddenham Borehole at 240 feet (73.15 m).  
SAC 112. SEM 76/12300,  $\times 16,000$ .
- Fig. 10 *Zeugrhabdotus erectus* (DEFLANDRE 1954)  
Oblique distal view showing the long, central spine. Lower Kimmeridge Clay,  
Haddenham Borehole at 50 feet (15.24 m). SAC 7. SEM 72/3605,  $\times 12,000$ .
- Fig. 11 *Actinozygus crux* (DEFLANDRE & FERT 1952)  
Distal view. Lower Kimmeridge Clay, Haddenham Borehole at 80 feet (24.39 m).  
SAC 22. SEM 72/3573,  $\times 24,000$ .
- Fig. 12 *Zeugrhabdotus salillum* (NOËL 1965)  
Distal view. Middle Oxford Clay, Gamlingay Borehole at 140 feet (42.68 m). SAC 238.  
SEM 72/3724,  $\times 20,000$



**Plate 10**

- Fig. 1-3      *Zeugrhabdotus erectus* (DEFLANDRE 1954)  
1: Coccosphere. Middle Oxford Clay, Millbrook Section, near Ampthill, Bedfordshire. SAB 175. SEM 76/12297,  $\times 3,000$ .  
2: Distal view, long spined form. Upper Oxford Clay, Gamlingay Borehole at 64 feet (19.51 m). SAC 197. SEM 76/12285,  $\times 12,000$ .  
3: Lateral view. *Ibid.* SEM 76/12284,  $\times 8,000$ .
- Fig. 4, 5      *Chiastozygus asymmetricus* sp. n.  
4: Holotype, distal view, optical micrograph. Middle Oxford Clay, Millbrook section near Ampthill, Bedfordshire. SAB 175. Slide number MPK 1173 (IGS slide collection, Leeds).  $\times 6,000$ .  
5: Paratype, distal view, optical micrograph. *Ibid.*
- Fig. 6, 7, 10      *Staurorhabdus magnus* sp. n.  
6: Distal view, optical micrograph. Upper Oxford Clay, Gamlingay Borehole at 65 feet (19.80 m). SAC 2950. Slide number MPK 1172 (IGS slide collection, Leeds).  $\times 4,000$ .  
7: Another specimen, optical micrograph. *Ibid.*  $\times 4,500$ .  
10: Holotype, distal view. Upper Oxford Clay, Gamlingay Borehole at 110 feet (33.53 m). SAC 220. SEM 76/12632,  $\times 9,500$ .
- Fig. 8, 9      *Proculithus fistulatus* sp. n. ex PRINS 1969  
8: Holotype, lateral view, optical micrograph. Upper Lias (Toarcian), *falciferum* Zone, Hill Lane Borehole at 42.65 feet (13 m), Brent Knoll [NGR ST335516]. SAC 2452. Slide number MPK 1174 in the IGS collection, Leeds.  $\times 4,000$ .  
9: Another specimen, optical micrograph. *Ibid.*
- Fig. 11      *Proculithus charlotteii* sp. n.  
Lateral view, broken interior. Upper Oxford Clay, Gamlingay Borehole at 110 feet (33.53 m). SAC 220. SEM 76/12634,  $\times 14,500$ .
- Fig. 12      *Diazomatolithus lehmanii* NOËL 1965  
Lateral view. Upper Oxford Clay, Haddenham Borehole at 218 feet (66.45 m). SAC 98. SEM 76/12585,  $\times 14,000$ .





**Plate 11**

Fig. 1, 5, 6

*Proculithus expansus* sp. n.

1: Holotype, oblique proximal-lateral view. Upper Oxford Clay, Millbrook section, near Ampthill, Bedfordshire. SAB28. SEM 76/12545,  $\times 16,000$ .

5: Oblique proximal-lateral view. Upper Oxford Clay, Gamlingay Borehole at 110 feet (33.53 m). SAC220. SEM 76/12630,  $\times 18,000$ .

6: Lateral view of Figure 5. *Ibid.* SEM 76/12631,  $\times 16,000$ .

Fig. 2-4

*Millbrookia perforata* sp. n.

2: Holotype, oblique proximal-lateral view. Middle Oxford Clay, Millbrook section, near Ampthill, Bedfordshire. SAB 175. SEM 76/12535,  $\times 16,000$ .

3: Proximal view, showing the longer laths adjacent to the shield. *Ibid.* SEM 76/12537,  $\times 14,000$ .

4: Oblique distal view. *Ibid.* SEM 76/12533,  $\times 22,000$ .

Fig. 7, 8

*Millbrookia virgata* sp. n.

7: Holotype, proximal view. *Ibid.* SEM 76/12531,  $\times 30,000$ .

8: Paratype, (?) distal view. *Ibid.* SEM 76/12525,  $\times 30,000$ .

Fig. 9

*Proculithus charlotteii* sp. n.

Holotype, oblique distal-lateral view. Upper Oxford Clay, Millbrook section, near Ampthill, Bedfordshire. SAB28. SEM 76/12547,  $\times 20,000$ .

