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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, $\times 8,000$.

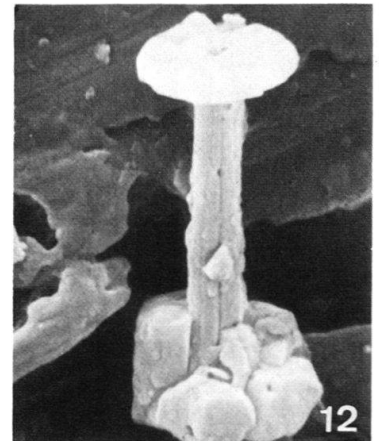
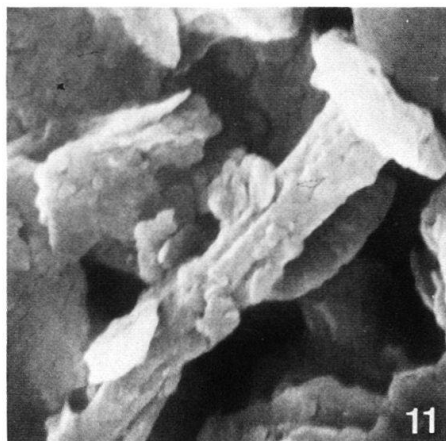
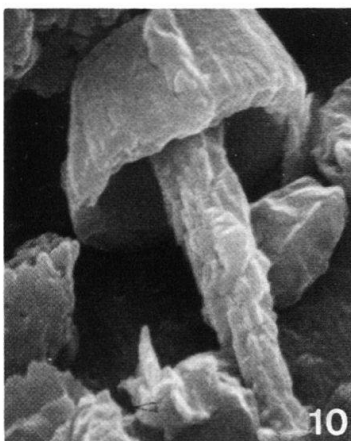
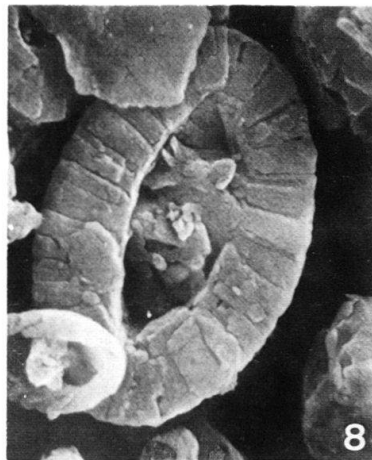
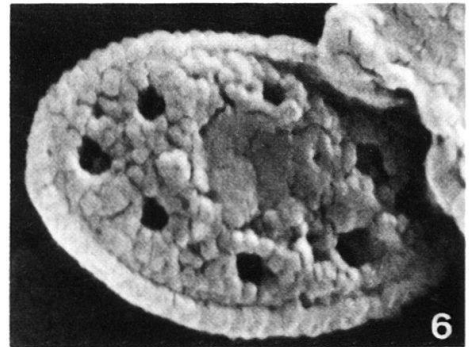
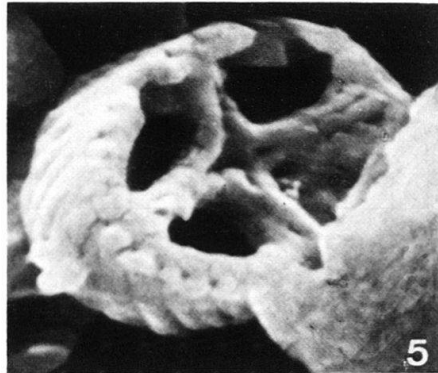
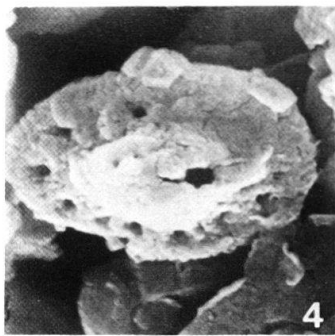
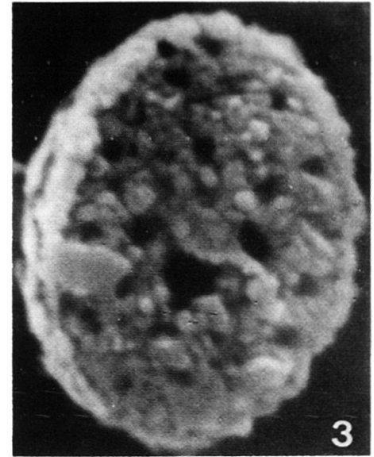
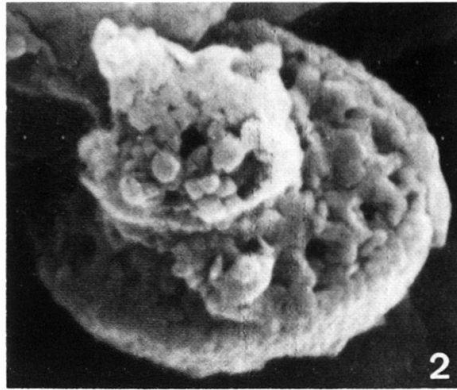
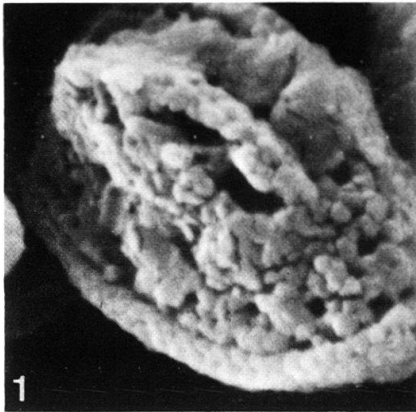


Plate 2

- 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.

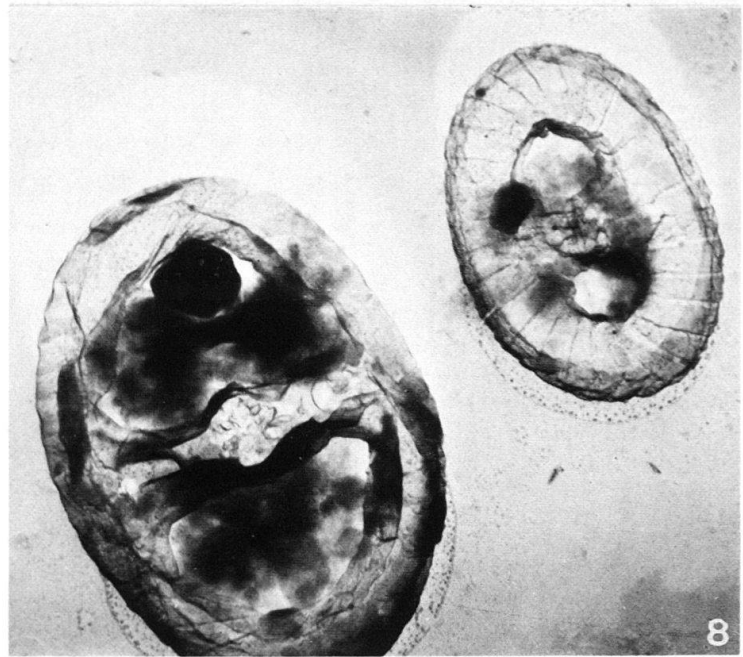
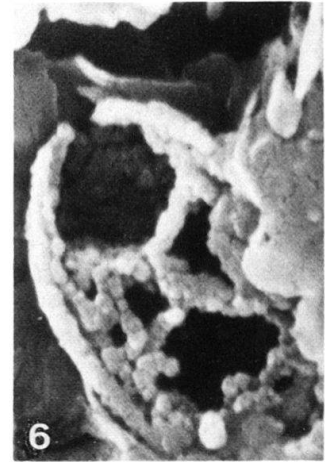
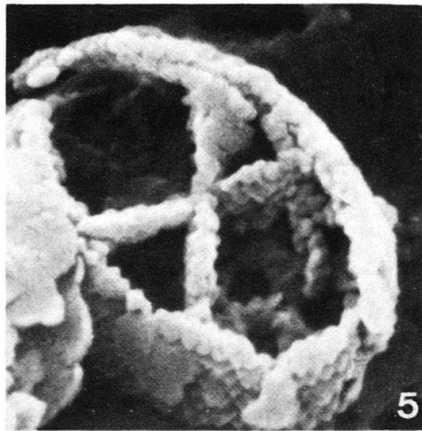
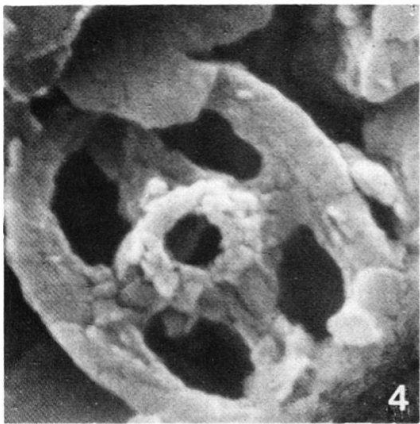
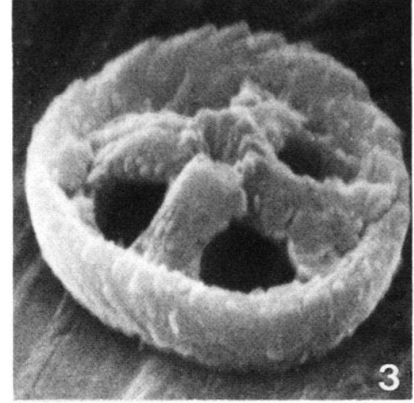
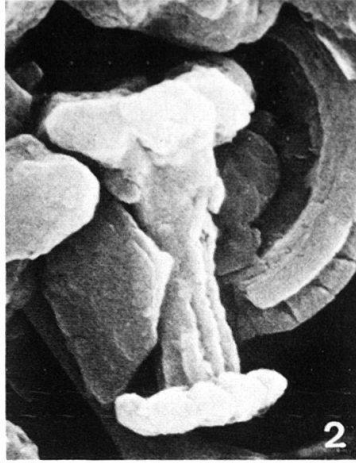
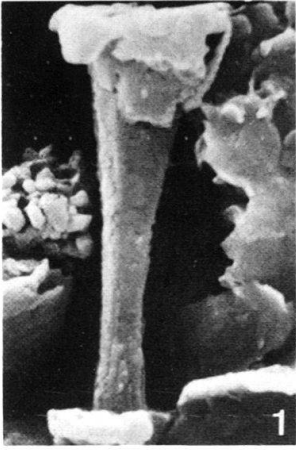


Plate 3

- 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, $\times 18,000$.

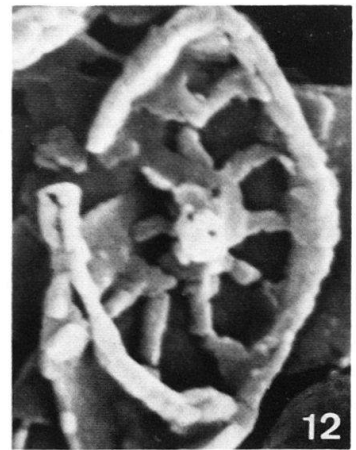
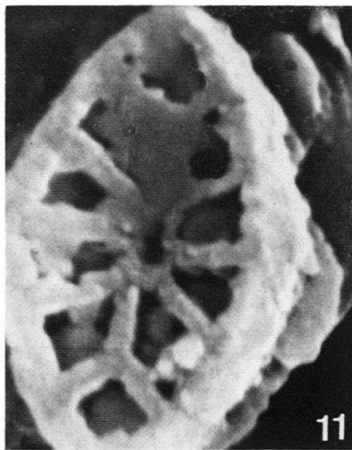
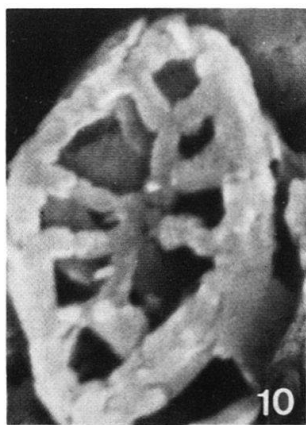
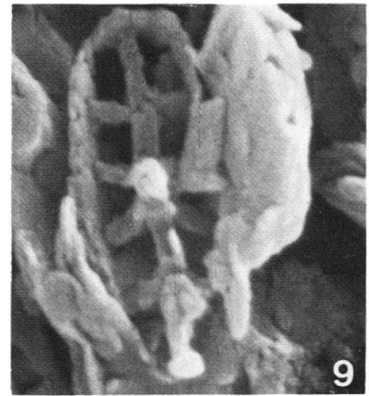
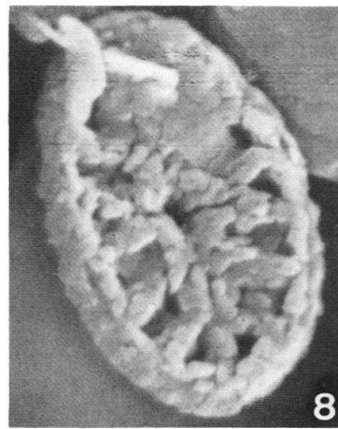
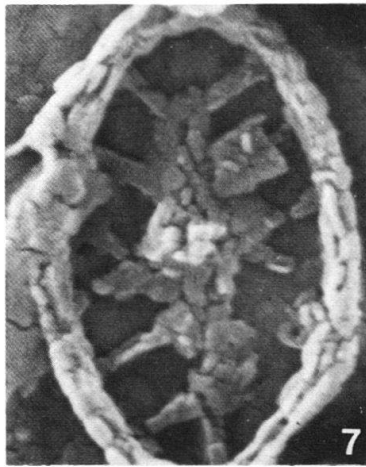
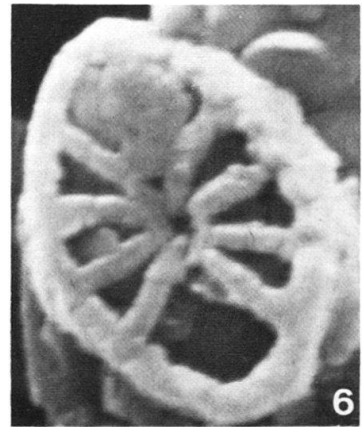
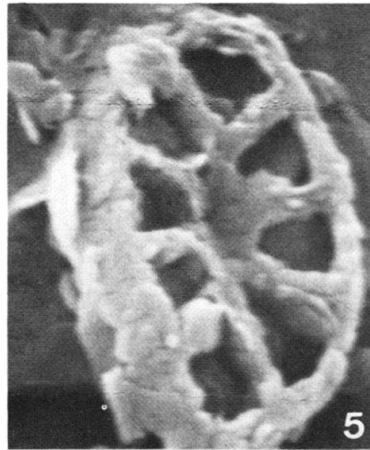
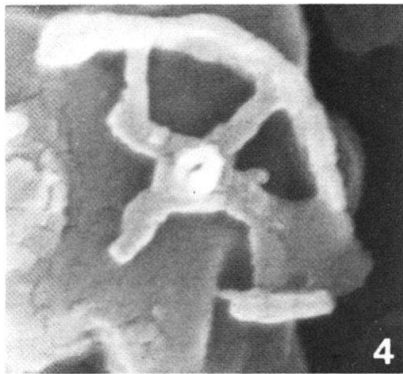
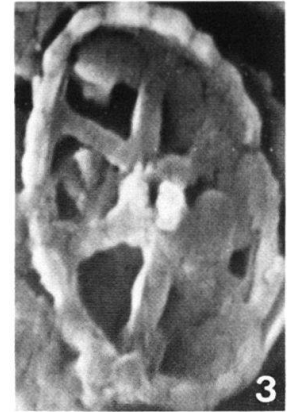
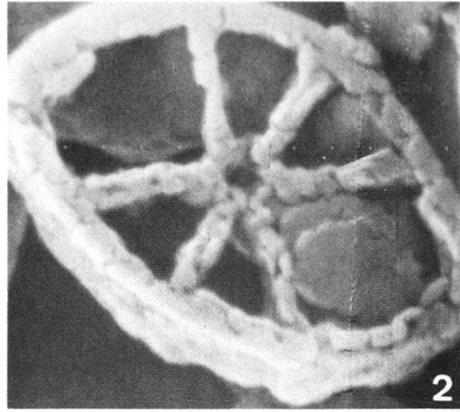
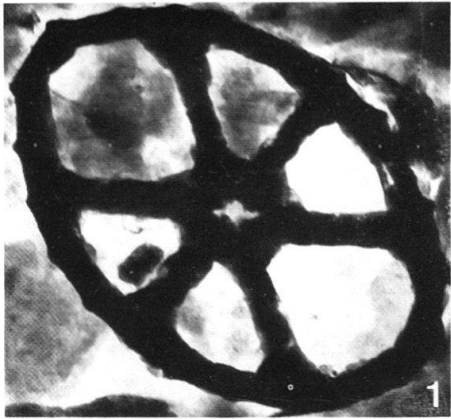


Plate 4

- 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, $\times 10,500$.

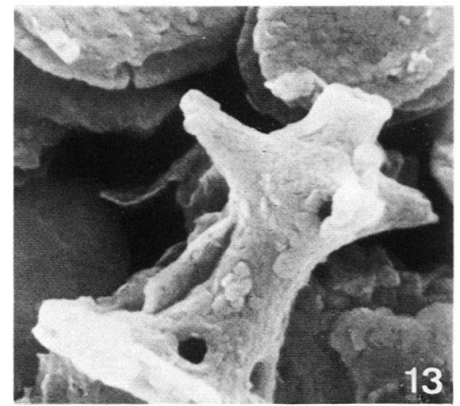
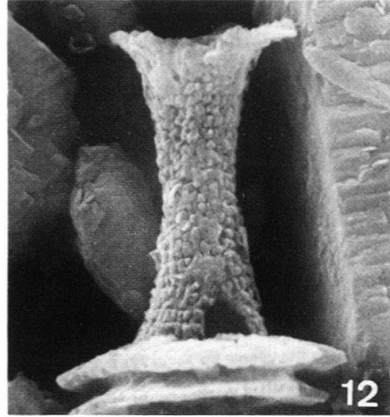
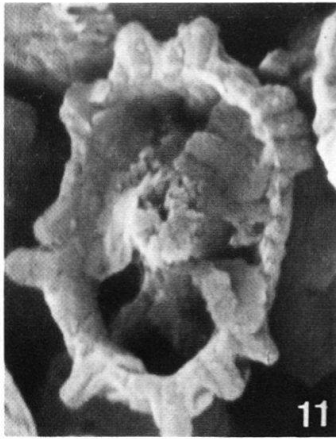
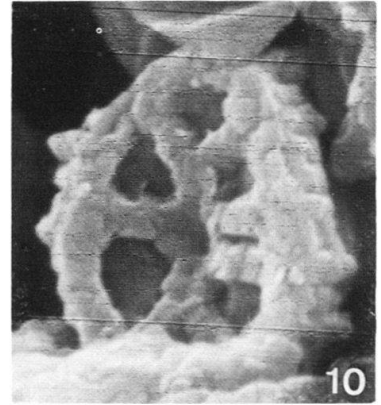
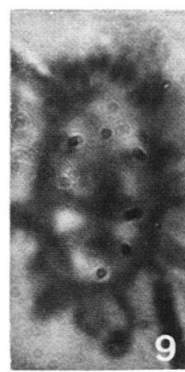
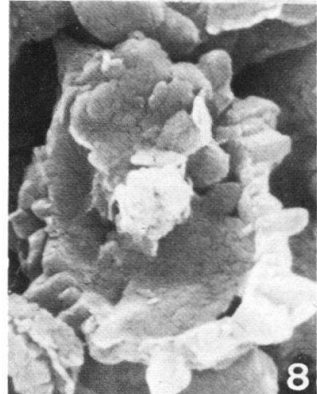
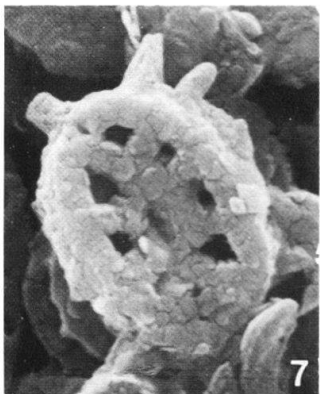
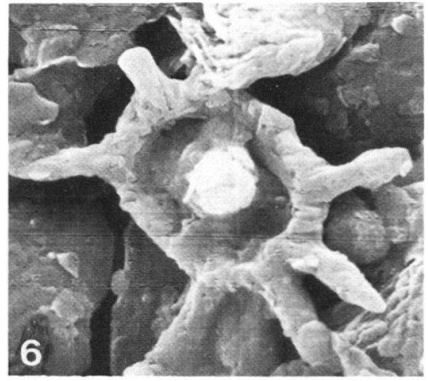
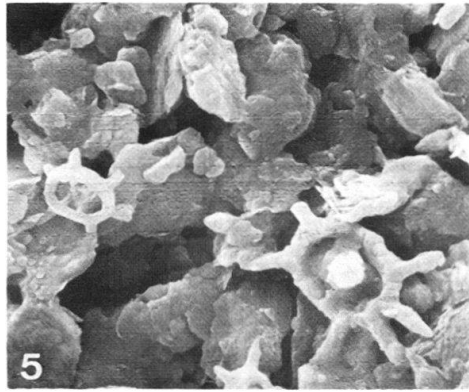
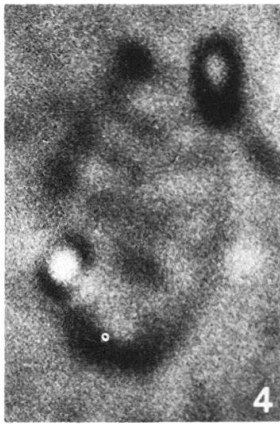
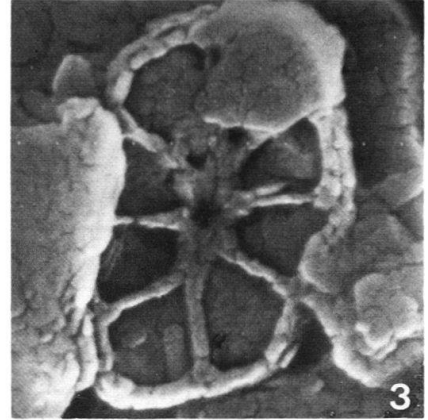
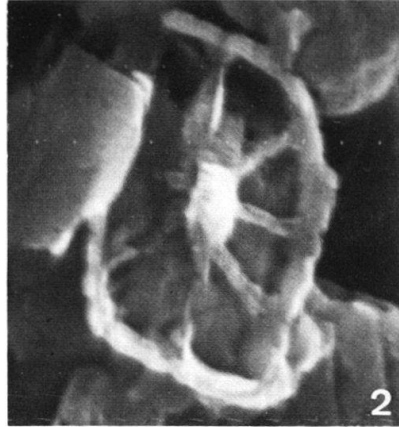


Plate 5

- 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, $\times 8,500$.

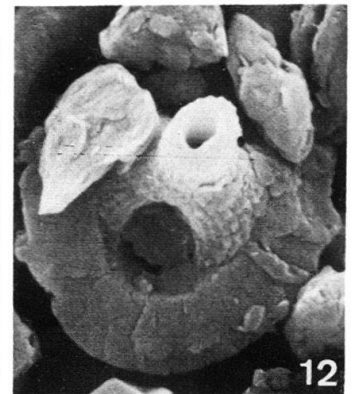
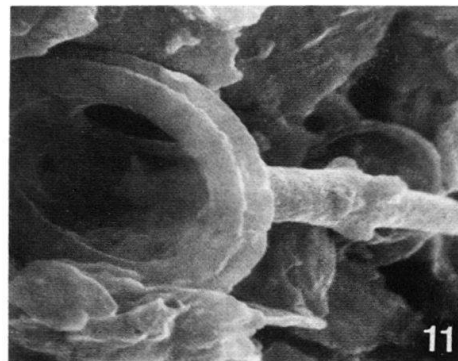
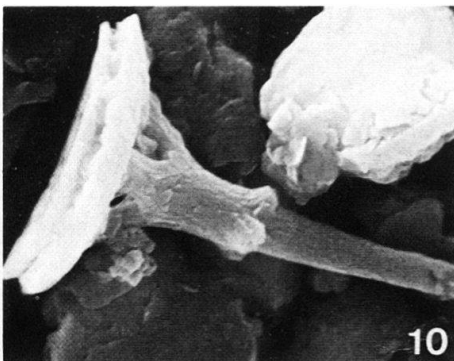
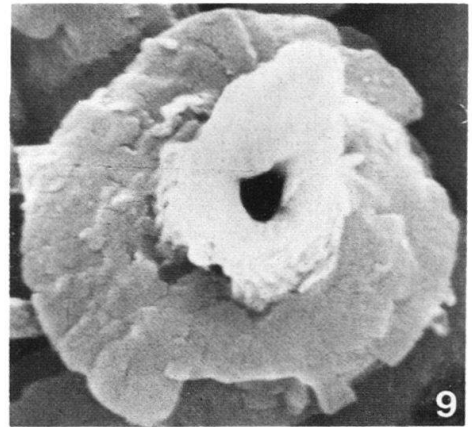
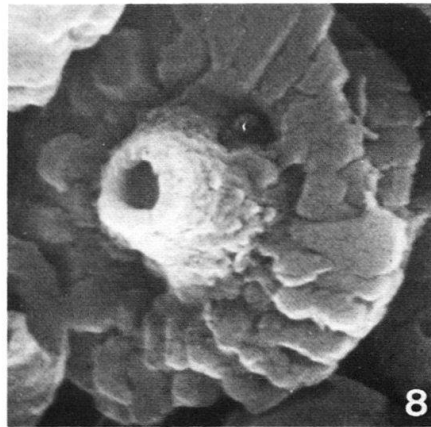
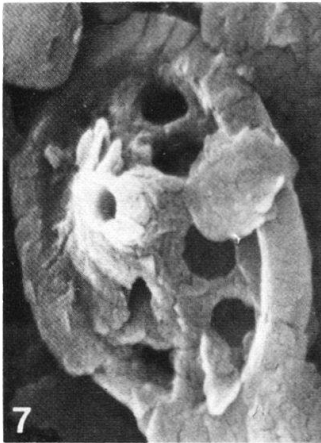
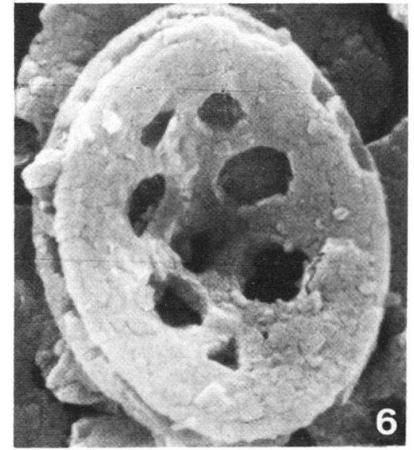
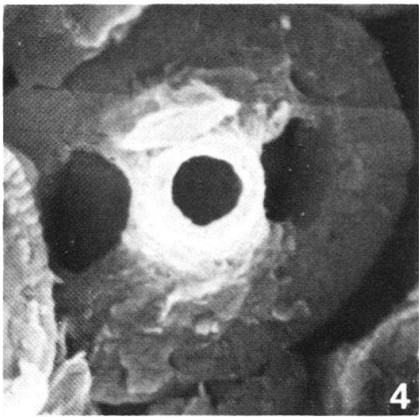
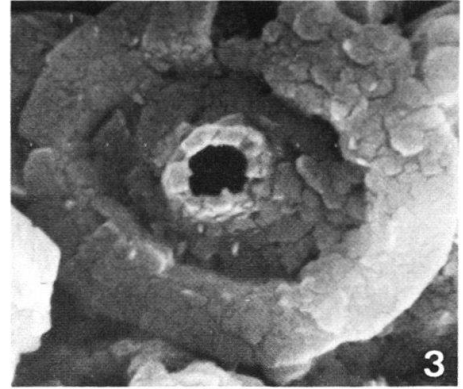
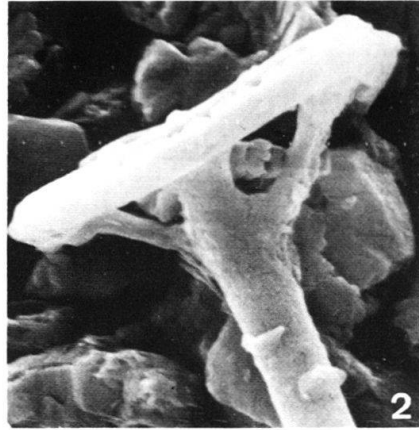
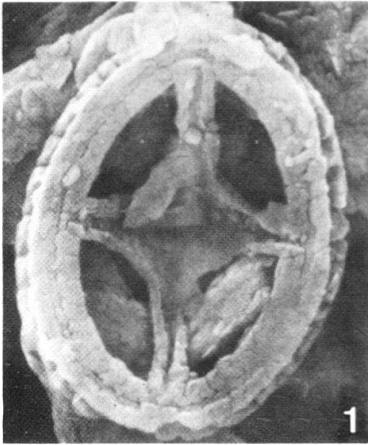


Plate 6

- 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).

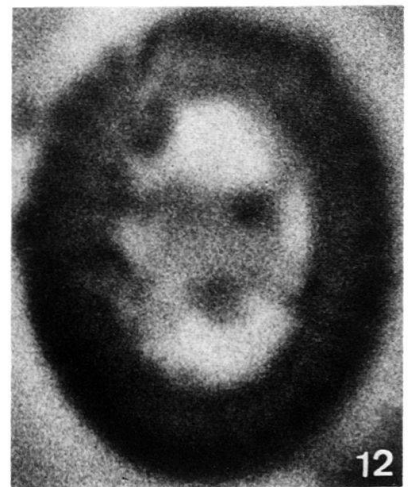
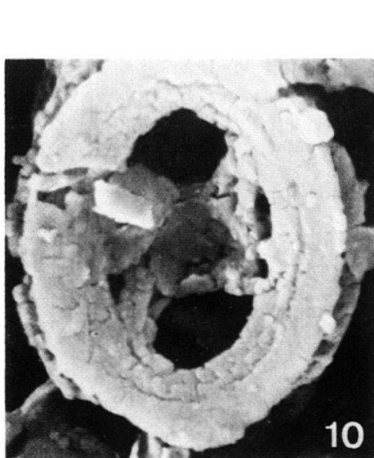
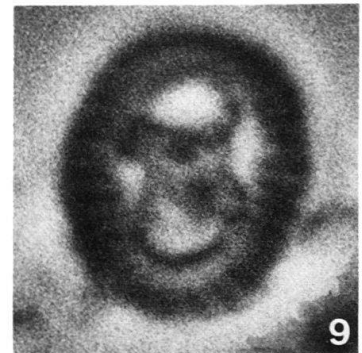
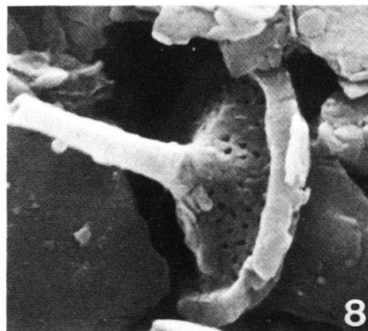
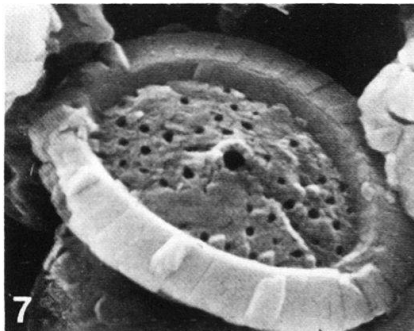
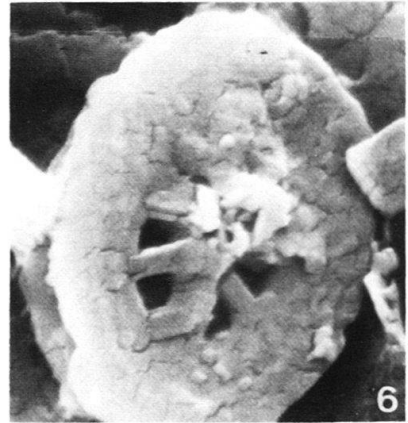
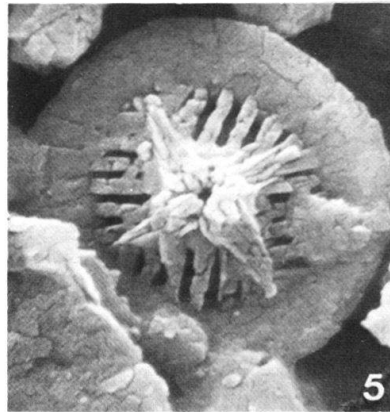
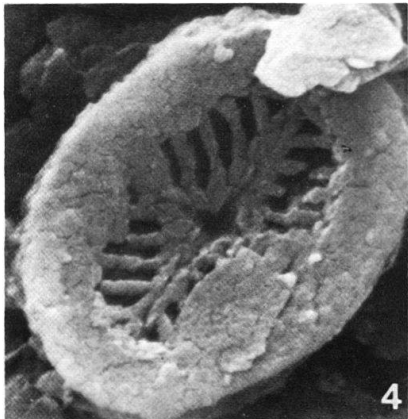
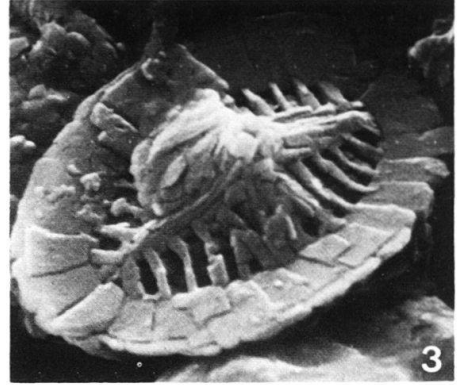
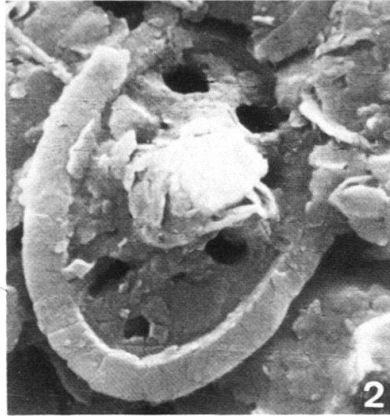
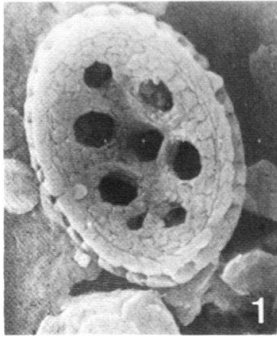


Plate 7

- 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, $\times 6,000$.

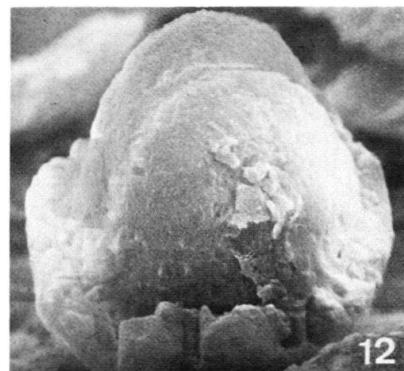
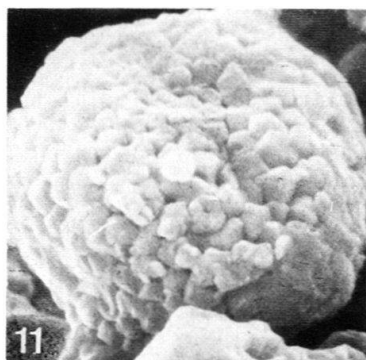
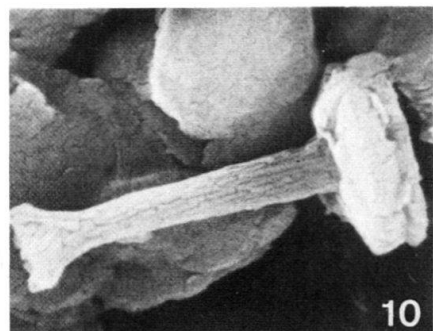
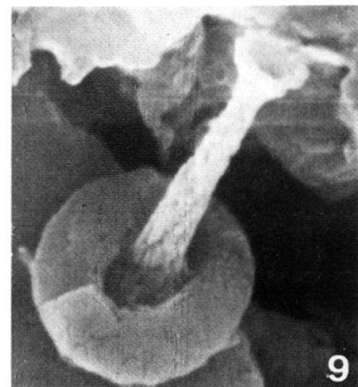
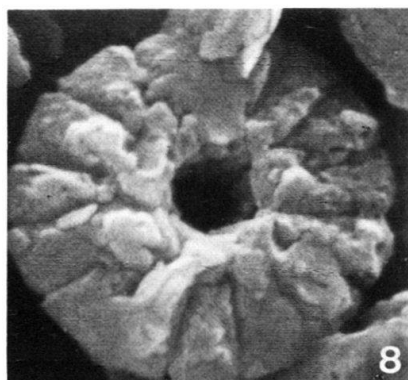
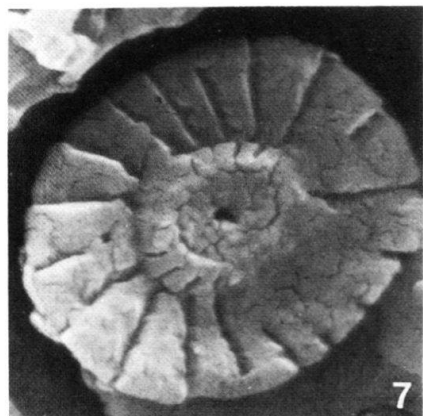
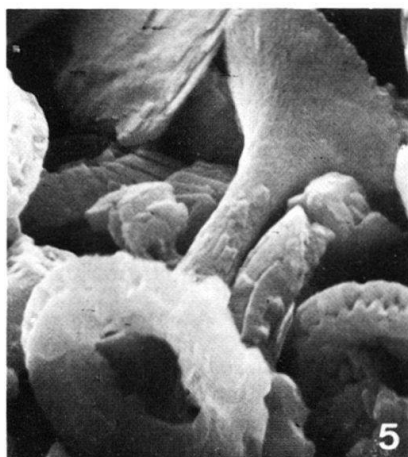
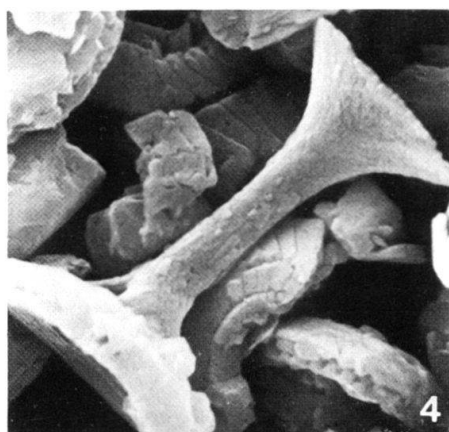
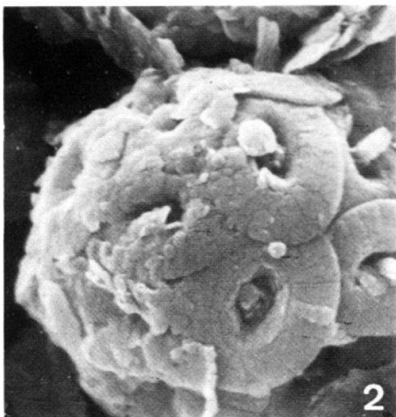


Plate 8

- 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, $\times 13,000$.

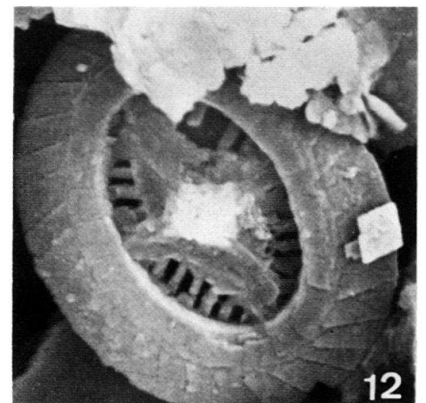
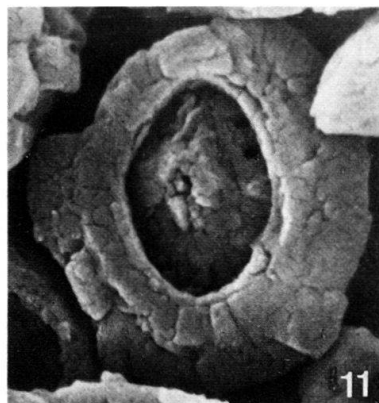
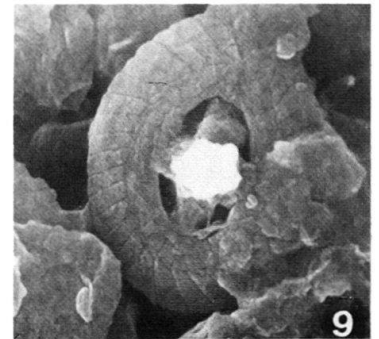
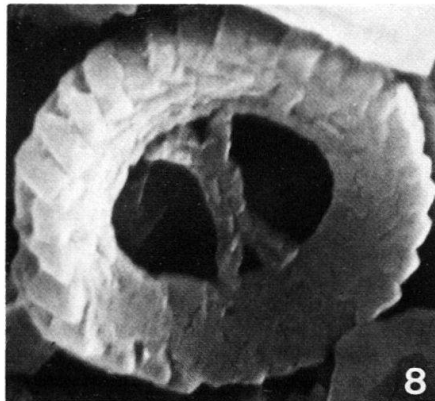
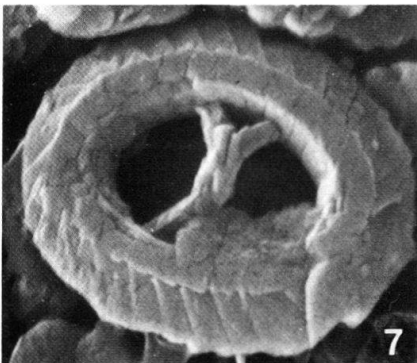
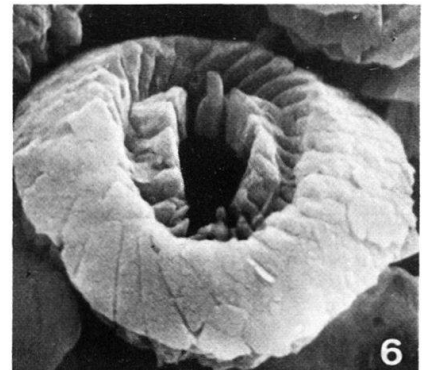
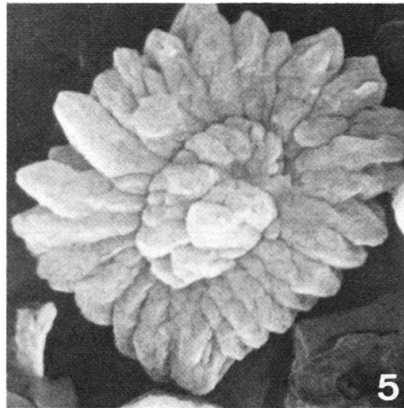
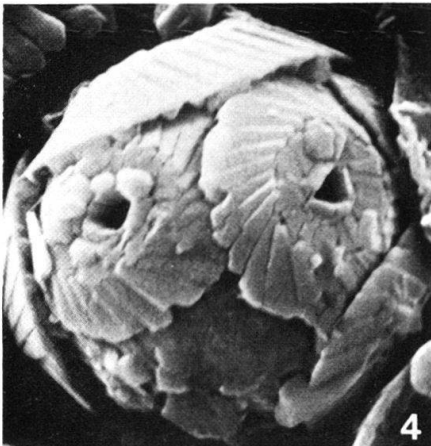
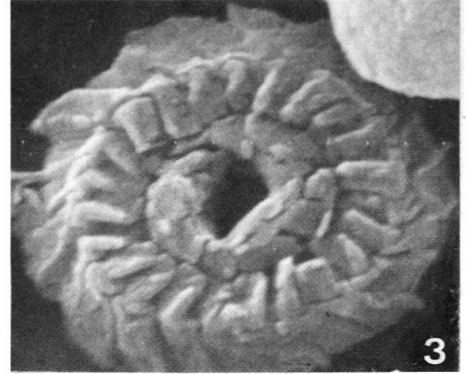
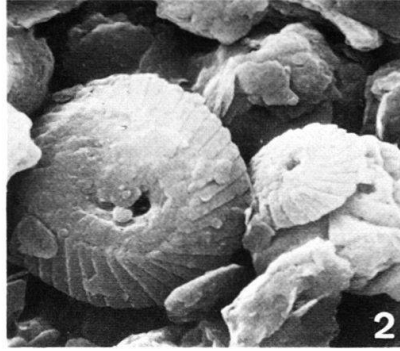
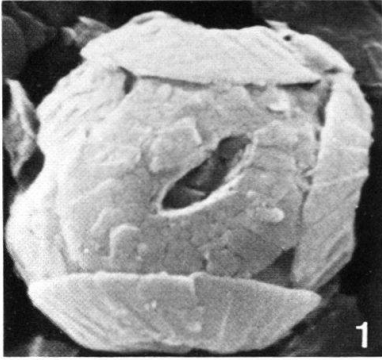


Plate 9

- 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, $\times 20,000$

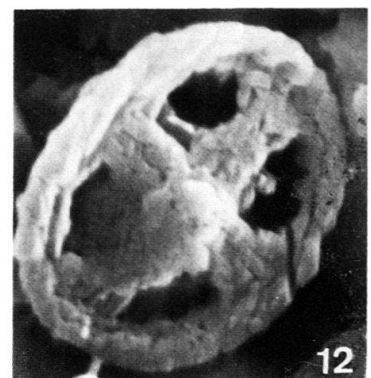
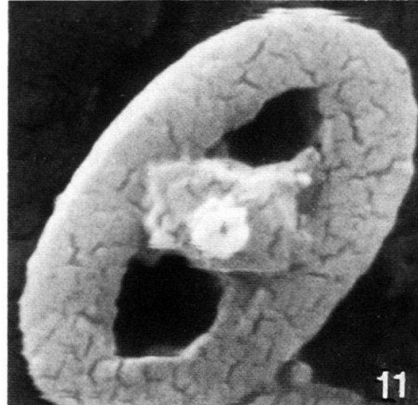
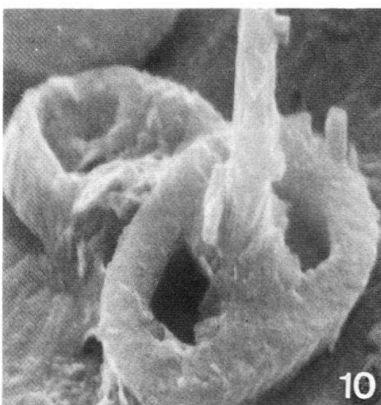
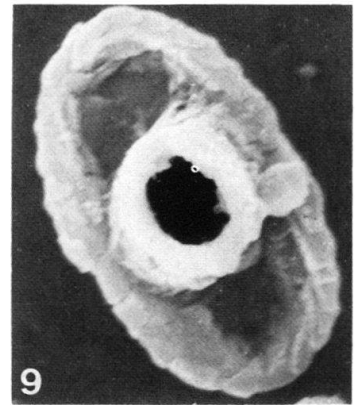
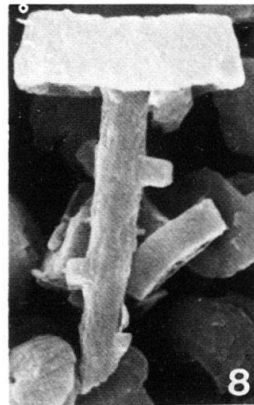
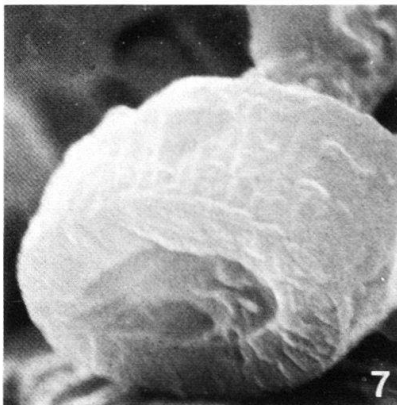
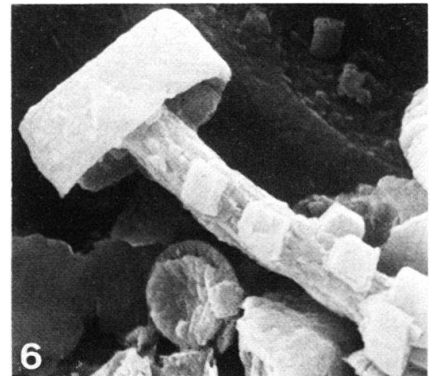
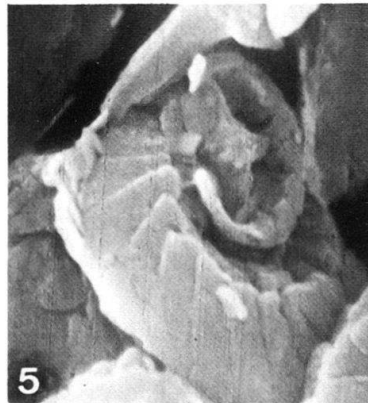
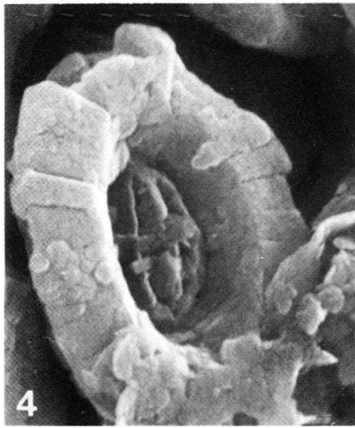
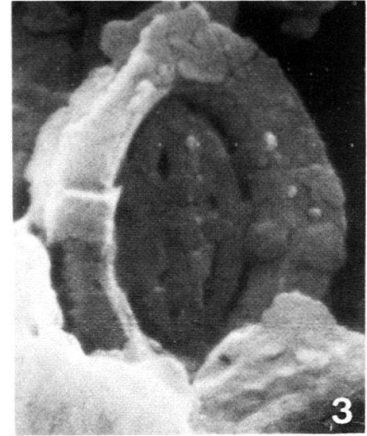
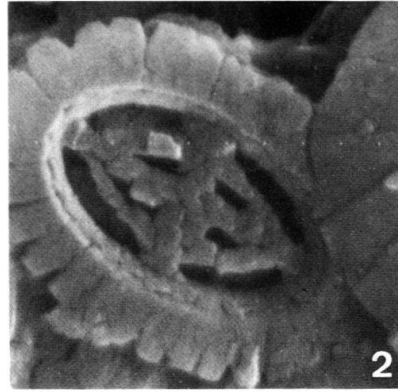


Plate 10

- 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 [NGRST335516]. 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, $\times 14,000$.

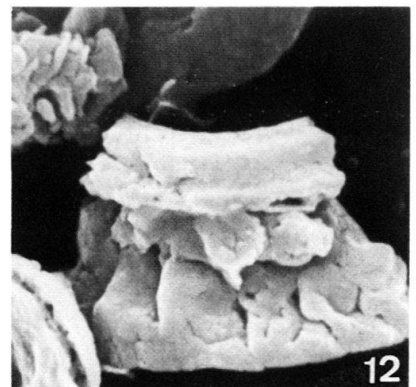
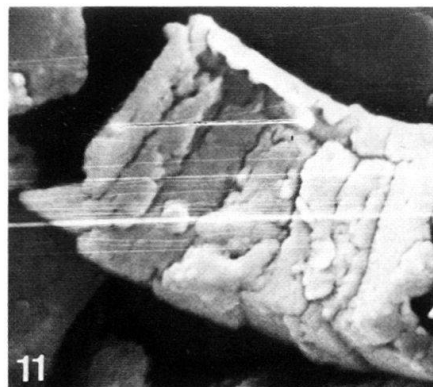
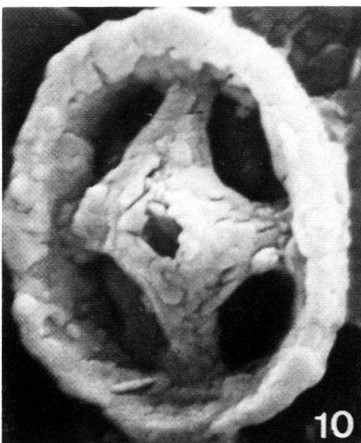
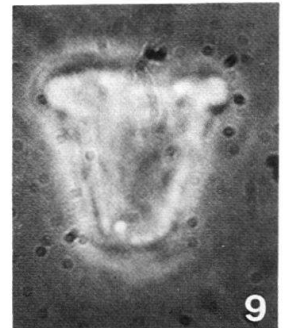
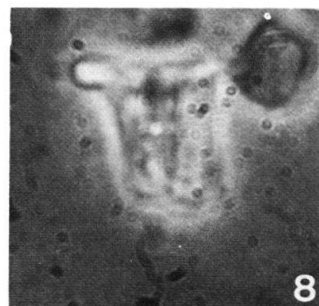
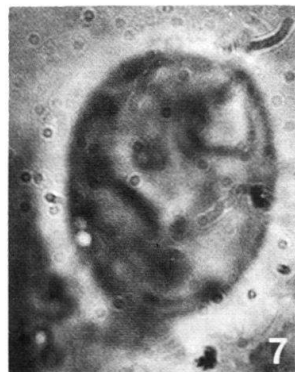
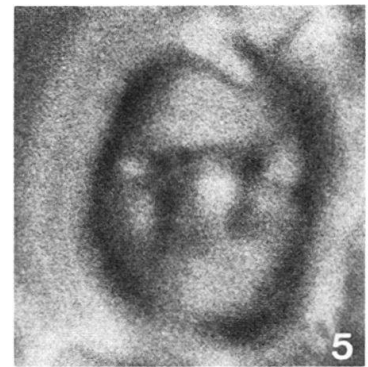
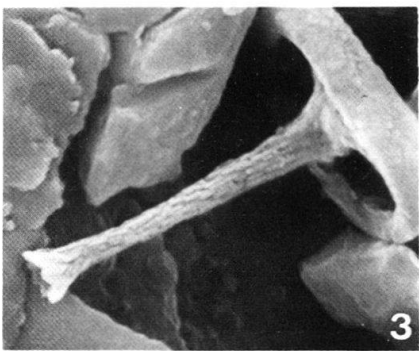
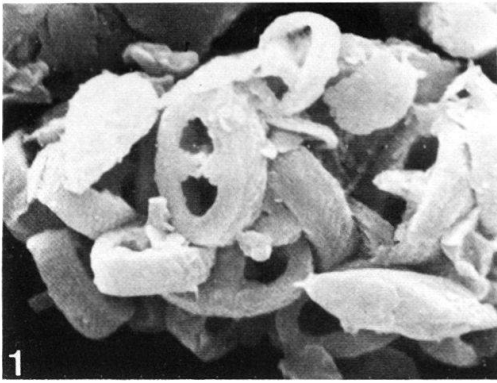


Plate 11

- 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, $\times 20,000$.

