

Excursion to Swanage, Lulworth Cove, and Bournemouth. Whitsuntide, May 14th to 18th, 1910 - Geologists' Association excursion

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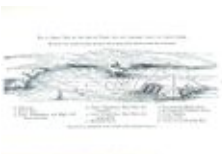
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Geologists' Association Circular No. 119. Session 1909-1910. p. 3-7



Excursion to Swanage, Lulworth Cove, and Bournemouth. Whitsuntide, May 14th to 18th, 1910. (Transcription from GA Circular No. 119. p3-7)

DIRECTORS: F. HOVENDEN, F.L.S., F.G.S., H. W. MONCKTON, F.L.S., F.G.S., DR. W. THEOPHILUS ORD, W. WHITAKER, F.R.S., F.G.S., AND A. SMITH WOODWARD, LL.D., F.R.S., F.F.S., F.G.S.

EXCURSION SECRETARY: W. P. D. Stebbing, 78a, Lexham Gardens, W.

N.B.—The excursion to Lulworth Cove can only be carried out if the sea is calm, and should Saturday not be suitable for the excursion an alteration will be made in the order of the excursions, and the Lulworth programme will be postponed to Tuesday.

RAILWAY ARRANGEMENTS (Friday, May 13th).—Leave Waterloo 4.10 p.m. by train due at Swanage 7.14 p.m. Special return tickets (available to return by any train up to Wednesday night), 13s. 9d. each way, may be obtained from Mr. Stebbing, or at Waterloo.

HOTEL ARRANGEMENTS.—Headquarters, "Tokio" Boarding House, Rempstone Road. Tariff, 7s. 6d. per day, including dinner, bed, attendance, breakfast and lunch sandwiches. Members should make early application for rooms, stating that they belong to the Geologists' Association Party. They should at the same time give notice to Mr. Stebbing of the fact, stating on which clays they desire to be included in any arrangements for drives, teas, boats, etc., and enclose a stamped addressed envelope for reply. Information as to additional accommodation may also be obtained from Mr. Stebbing.

Saturday, May 14th, Lulworth Cove

Director : MR. HOVENDEN.

Breakfast, 8.15. -Take luncheon.

Assemble at Swanage Pier outside the gates at 9.55 a.m., when, if the day is suitable for the Lulworth excursion, the party will proceed to Peveril Point and examine the Upper Purbeck Beds (Marble and *Unio-Beds*, etc.). If the day is not suitable for Lulworth the party will leave by the 9.30 boat for Bournemouth, and follow the programme set out for Tuesday.

Leave Swanage Pier, 11.0 a.m., by steamboat for Lulworth Cove. Good view of the cliffs, with quarries in Portland Stone, between Anvil Point and St. Alban's Head, and also of the Kimeridge Cliffs.

Return ticket, for the day, 1s. 6d. and 2s. each.

Arrive Lulworth Cove 12.15 p.m., land and take rowing boats, about 2s. each ; land in Man of War Bay (1 mile to the west) and inspect cliffs, Chalk down to the Portland Stone, walk across the Durdle Promontory to Durdle Door, and note line of small hollows along a thrust fault in the Chalk. Walk back to Lulworth Cove by the cliffs, 1½ miles (those who prefer it may return by the boats). Again take the boats and row east (1 mile) to the Mupe Rocks, Purbeck and Portland, and examine a very interesting section, ascend the cliff and walk west, visit the Fossil Forest and walk back to Lulworth Cove, 1 mile.

Leave Lulworth Cove by steamboat, 6.0 p.m., arrive Swanage 7.15 p.m. Dinner 8.0 p.m.

Monday, May 16th. Chapman's Pool and St. Alban's Head

DIRECTOR: MR. MONCKTON.

Breakfast, 8.15. Take luncheon.

Leave Swanage 9.30 a.m. in carriages and drive to Worth Matravers (cost 1s. 6d. each).

Walk to Chapman's Pool, 1 miles, and inspect the cliff of Kimeridge Clay Fossils, then south by path over landslip, and ascend the cliff, to St. Alban's Head, 1 mile (small Norman Chapel on the head). The top of the cliff is formed of Portland Beds, and fossils from them may be obtained on the way up. Walk along the cliffs, east, to Durlleston Head, 5 miles, inspecting quarries with very fine sections in the Portland Stone on the way. Refreshments can be obtained at Durlleston " Castle," walk back to Swanage, 1 mile. Dinner, 7.30.

Tuesday, May 17th, Bournemouth

DIRECTORS: Mr. WITTTAKER, Dr. ORD, and Mr. MONCKTON.

Breakfast, 8.15. Take luncheon.

Leave Swanage Pier by buff-funnel steamboat, 9.20 a.m. Return fare, 1s. The Chalk cliffs of Ballard Down and the Isle of Purbeck Fault can be well seen from the boat (see Jubilee Volume, Fig. 70, p. 410.)

Arrive Bournemouth, 10 a.m. (about), and walk along the shore to the east. At the Zig-Zag path the relations of the Bracklesham Beds to the Bournemouth Marine and Freshwater Beds will be explained. Walk along the shore to Boscombe Pier, noting rise of freshwater beds from the beach, beds with plant-remains, palm-fronds leaves, current-bedding, etc. The so-called Seed-patch will be pointed out.

Visit Honeycomb current-bedding, where there is a bed full of the fruits of *Nipa*. Walk along the shore to Southbourne, noting the extensive pebble beds of Bracklesham age in the cliff and the Palaeolithic Gravel at the top. To the east of Southbourne sections in the old gravel of the River Stour will be seen, and the walk will be continued to Hengistbury Head, where there is a good cliff-section showing Bracklesham Beds with tabular masses of ironstone (sharks' teeth and Teredo-bored wood). Walk to the tramway at Southbourne Cross Roads, inspecting on the way remains of pit-dwellings in the cliff. Tea at Bournemouth. If time allows a visit will be made to Durley Chine, at base of which bands of Quartzite Sandstone may be seen, showing probable origin of sarsen stones *in situ*. Total walking distance, about 8 miles.

Return boat—Bournemouth 6.0, Swanage 6.45. Dinner, 7.30.

Wednesday, May 18th, Swanage

DIRECTORS: Dr. SMITH WOODWARD and Mr. HOVENDEN.

Breakfast 8.15. Take luncheon.

At 9.30 walk to Peveril Point and examine the section in the Upper, Middle, and Lower Purbeck Beds

in Durlleston Bay. Walk by way of Durlleston Head to Tilly Whim and examine the old Portland Stone Quarries known as the "Caves." Walk north, and visit some quarries now working in the Middle Purbeck. Return to Swanage. For section, see Figure 4.

Walking distance about 3 miles.

Leave Swanage by train 4.20 p.m., due at Waterloo 7.50 p.m., or 5.50 p.m. from Swanage, due Waterloo 10.5 p.m. (dining car train).

References

Geological Survey Map, New Series, Sheets 329, 342, 343. Price 1s. 6d. each.

1896. "Excursion to Swanage." Reports by H. W. Monckton and W. H. Hudleston. *Proc. Geol. Assoc.*, vol. xiv, pages 307-324 (part 8, price 1s.).

1896. STRAHAN, A.—"Physical Geology of Purbeck." *Proc. Geol. Assoc.*, vol. xiv, p. 405 (part 9, price 1s.).

1898. STRAHAN, A.—"The Geology of the Isle of Purbeck, etc." *Mem. Geol. Surv.* Price 10s. 6d.

1898. REID, CLEMENT.—"The Geology of the Country around Bournemouth." *Mem. Geol. Surv.* Price 4d.

1901. ROWE, A. W.—"The Zones of the White Chalk of the English Coast.—Part. II, Dorset." *Proc. Geol. Assoc.*, vol. xvii, pages 1-76 (part 1, price 2s.).

1906. STRAHAN, A.—"Guide to the Geological Model of the Isle of Purbeck." *Mem. Geol. Surv.* Price 6d.

1910. "Geology in the Field," The Jubilee Volume of the Geologists' Association, Part II. Bournemouth, pages 277-281. Swanage, pages 399-413. Price 5s. (4s. to Members on application to the Secretary).

During the Excursion there will be an opportunity of visiting Punfield Cove, Studland and the Agglestone.

Figures

Figure 1 Section of part of Stair Hole, Lulworth. H. B. Woodward. (Reproduced by permission of the Controller of H.M. Stationery Office.)

13. Corbula and Beef Beds.

12. Scallop Beds.

Middle Purbeck 11 Intermarine Beds.

10. Cinder Bed.

9. Cherty Freshwater Beds.

Lower Purbeck. Beds 8 to 2.

Portland Stone. Bed 1.

Figure 2.—St. Alban's Head From Chapman's Pool. H. W. Monckton.

1. Portland Stone (with thin Purbeck cap at top).
2. Portland Sand.
3. Kimmeridge Clay (much hidden by slips from above).

Figure 3 Ideal view of the Isle of Wight and the adjacent land.—J. Starkie Gardner.

The dotted lines connect the neatly horizontal beds of the mainland with the vertical beds of the island.

0. Oligocene.
1. Barton Beds.
2. Upper Bracklesham and High Cliff white-sand beds.
3. Upper Hengistbury Head Beds with ironstone.
4. Lower Hengistbury Head Beds with green grains.
5. Boscombe Sands.
6. Bournemouth Marine Series.
7. Bournemouth Freshwater Series.
8. Lower Bagshot.
9. London Clay.
10. Woolwich and Reading Beds.

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Figure 4. Section from Durlston Head to Peveril Point, Swanage. Distance one mile—A. Strahan

- | | |
|---|-----------------|
| 1. Marls with gypsum. | |
| 2. Caps and Broken Beds. | Lower Purbeck |
| 3. Portland Beds. | |
| 8. Corbula and Beed Beds. | |
| 7. Stone Beds. | |
| 6. Cinder Bed with <i>Ostrea distorta</i> . | Middle Purbeck. |
| 5. Stone Beds. | |
| 4. Flint Bed, Black Shale and Mammal Bed. | |
| 10 Purbeck Marble, etc. | |
| 9. Broken-shell Limestone | Upper Purbeck |

Section: N.N.E to SSW through cross roads at top of Starve Crow Hill and Tonbridge Railway Station. E.W. Handcock.

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