

*Central: A.S. Warthin Jr.*

TENTH ANNUAL MEETING  
NEW YORK STATE GEOLOGICAL ASSOCIATION  
AT  
COLGATE UNIVERSITY, HAMILTON, N.Y.

PRELIMINARY SCHEDULE

HEADQUARTERS: Colgate Inn, Hamilton, New York.

Date: Friday, May 18, and Saturday, May 19, 1934

The following schedule is based on Eastern Standard Time.

FRIDAY, MAY 18

FRIDAY MORNING:

REGISTRATION:

Everyone attending the meetings is requested to register at the headquarters desk in the Colgate Inn as soon as possible after arrival in Hamilton, in order to facilitate arrangements for rooms, meals and entertainment.

FIELD EXCURSION:

Meet at the Colgate Inn at 10:30 A.M. Several Pleistocene features will be visited, including the great kame loop, Madison Lake delta, and various kettle holes. The trip will end at Stockbridge Falls, where lunch will be served.

LUNCHEON:

A picnic luncheon will be served at Stockbridge Falls, at the conclusion of the morning excursion. Tickets for this luncheon may be obtained at 50¢ each at the headquarters desk in the Colgate Inn.

Friday, May 18 - concluded.

FRIDAY AFTERNOON:

FIELD EXCURSION:

After luncheon at Stockbridge Falls, the field party will examine exposures of the following formations in the vicinity:

DEVONIAN:

Marcellus shale, with Cherry Valley limestone member  
Onondaga limestone  
Helderberg limestone

SILURIAN:

Manlius limestone

A visit will also be made to a ravine near Stockbridge Station, a short distance away, in which the following formations will be seen:

DEVONIAN:

Helderberg limestone

SILURIAN:

Manlius limestone  
Rondout limestone  
Cobleskill limestone  
Bertie dolomite      Salina  
Camillus shale

FRIDAY EVENING:

DINNER (informal)

At 7:00 P.M., an informal dinner will be held at the Colgate Inn. Tickets may be obtained at the headquarters desk in the Colgate Inn, at \$1 each.

EVENING MEETING:

After the dinner, Dr. G.A. Cooper of the United States National Museum will give a short talk, which will be followed by an informal discussion and a short business session.

INFORMAL DANCE:

A complimentary dance (informal) will be given the visitors at the Colgate Inn, after the evening meeting. Admission will be by tickets, which will be given out at the registration desk.

SATURDAY, MAY 19

SATURDAY MORNING:

BREAKFAST:

A 50¢ breakfast will be served at the Colgate Inn for those who wish it.

FIELD EXCURSION:

Meet at the Colgate Inn at 9:00 A.M. Dr. G.A. Cooper will show the party the new divisions of the Hamilton formation, and the newly discovered eastward extension of the Tully formation.

LUNCHEON:

Those who wish can obtain luncheon at the Colgate Inn for 50¢, 65¢ or a la carte.

SATURDAY AFTERNOON:

No formal program has been scheduled for Saturday afternoon, but excursions to the following points will be arranged for those who may be interested:

Colgate University Department of Geology, and Museum of Natural History.  
Ilion Gorge  
Clinton Iron Mine.

GENERAL INFORMATION

ACCOMADATIONS AND MEALS:

ROOMS:

It is desirable to make reservations in advance for rooms, in order that everyone may be accomadated as comfortably as possible. A limited number of rooms will be available at the Colgate Inn, all of which include prbvat bath. All of these rooms accommodate two persons and some of them three. If rented to one person only, the charge is \$4.00 a night; if used by two or more, the charge is \$2.00 per person per night. A large number of rooms will also be available in private homes in the village of Hamilton, for \$1.00 per night per person.

Please send your request for room reservations to the secretary, Towner B. Root, Hamilton, New York.

General Information - concluded.

MEALS:

Reservations for the following meals should be made in advance with the secretary, or at the headquarters desk in the Colgate Inn, where tickets may be obtained for them.

Picnic Lunch, Friday, May 18. Price 50¢. Served at Stockbridge Falls.

Informal dinner, 7:00 P.M., Friday evening, May 18, at the Colgate Inn. Price \$1.

Other meals may be obtained at the discretion of the individual, since no arrangements have been made for them in advance.

TOPOGRAPHIC MAPS

The following quadrangles show all points to be visited in the scheduled excursions. These will be on sale at the headquarters desk in the Colgate Inn, at 10¢ per sheet:

Morrisville, New York  
Norwich, New York  
Sangerfield, New York

DETAILED ITINERARY:

A detailed account of routes to be taken and points to be visited will be available at the time of registration, at the headquarters desk in the Colgate Inn.

PRELIMINARY BIBLIOGRAPHY:

- Preliminary Report of the Terminal Moraine, The second Glacial Epoch, by T.C. Chamberlain. 3rd Annual Report, U.S.G.S., 1882, pp. 295-401.
- Glacial Flood Deposits in Chenango Valley, by A.P. Brigham. Bulletin 82, The Geological Society of America, vol. 8, pp. 17-30, 1897.
- Geologic Map of the Tully Quadrangle, by John M. Clarke and D. Dana Luther. Bulletin 82, N.Y. State Museum, 1905.
- Geology of the Syracuse Quadrangle, by T.C. Hopkins, Bulletin 171, N.Y. State Museum, 1914.
- Stratigraphy of the Hamilton Group of New York, by G. Arthur Cooper. 1930. American Journal of Science, 5th series, vol. 19, pp 116-134, 214-236.
- Handbook of Paleontology for Beginners and Amateurs: Part 2, the formations, by Winifred Goldring, N.Y. State Museum Handbook 10. 1931.

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For further information, address the secretary: Towner B. Root,  
Hamilton, New York.  
50 (Department of Geology and Geography  
Colgate U.)

*W. J. B. B.* 1934  
ITINERARY FOR FRIDAY MORNING, MAY 18.

Leave Colgate Inn, 10:30 A.M.

Take road to Bouckville

Turn right on Cherry Valley Turnpike and proceed to Sangerfield Hill, turning left on dirt road. Follow dirt road until meeting highway leading to Oriskany Falls. Turn left. The first stop commands a view of the kame area.

Proceed to Oriskany Falls, noting kames along the road.  
At Oriskany Falls, turn left and proceed to Madison.

At Madison turn right at traffic light for  $\frac{1}{4}$  mile.

Second stop is at the head of the Madison Lake Glacial Delta.  
Note the deep kettle hole along the roadside and the gradual passage of the kame area into the Delta. Abundant kettle holes.

Proceed short distance and take left turn to Madison Lake.  
Third stop- Note the Madison lake ice-block-hole.

Continue on road leading south from Madison Lake to Cherry Valley Turnpike. Sharp right hand turn, USE CARE. Drive over the Delta. Note how the kettle hole topography yields to the flat surface of the delta.

Fourth stop. Just outside of Bouckville, Note the front of the Delta stretching across the valley.

Proceed to Bouckville and turn left toward Hamilton.

Fifth Stop. About  $1\frac{1}{2}$  miles. Note the clays on the bottom of the old glacial lake.

Proceed to Pecksport.

Sixth Stop. Just before crossing R.R. tracks.

This is where the ice dam must have occurred that blocked the Oriskany waters and formed the Glacial Lake.

Turn around and proceed to Pine Woods over cement road. At Pine Woods turn left on Cherry Valley Turnpike for  $\frac{1}{4}$  mile.  
Leave cement road and proceed northward on macadam road toward Munnsville.

Stop Seven. On top of hill beyond railroad crossing. Note the kame area in this valley. These kames form the divide between the Chenango and Oneida valleys.

Proceed toward Munnsville and turn left at stone house to Stockbridge Falls.  
USE CARE.

Lunch.

## ITINERARY FOR FRIDAY AFTERNOON.

STOCKBRIDGE FALLS AND VICINITY:

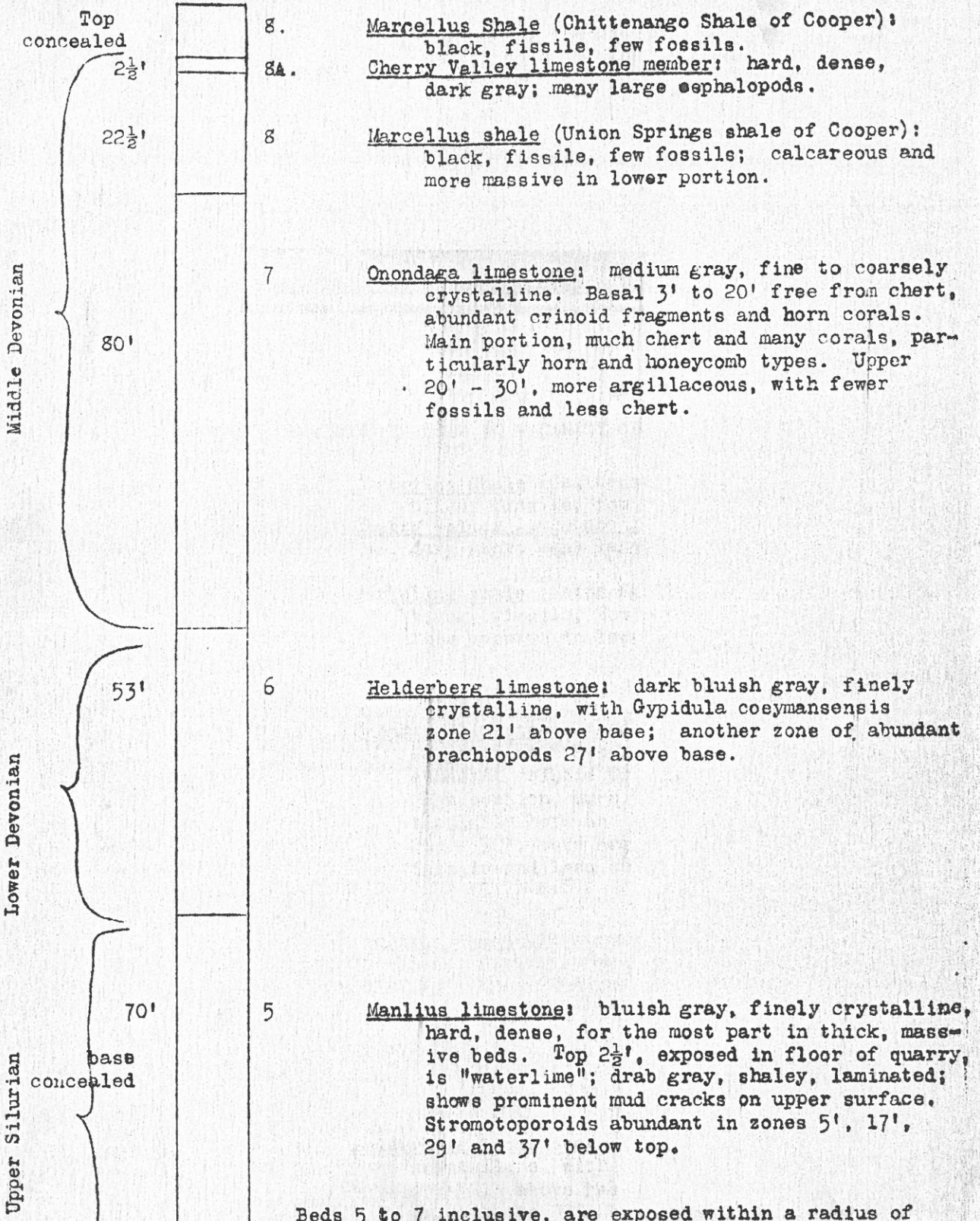
*Columnar*  
*N.S. etc*

The columnar section on the following page describes the formations to be seen in the vicinity of the picnic grounds. The mud cracks in the floor of the quarry are in the top waterlime layer of the Manlius formation, formation 5. The quarry is in the Helderberg limestone, which extends for several hundred feet up the slope to the west. A sharp rise to a level flat about an eighth of a mile west of the quarry marks the lowermost ledge of the Onondaga limestone, characterized by abundant chert and corals. The uppermost beds of the Onondaga limestone, and the overlying Marcellus shale with the Cherry Valley limestone member, are exposed upstream at a distance of about  $\frac{1}{2}$  mile and can be reached readily by car, as marked on the topographic map. Please use care in driving along this roadway, which is rather narrow and winding.

STOCKBRIDGE STATION RAVINE:

Those interested in details of the section of the Manlius limestone and underlying formations below, will want to visit the section in Stockbridge Station ravine, about three miles northeast of the picnic site, as marked on the topographic map. The ravine is somewhat steep and rocky and the going somewhat difficult, so that all members of the party may not want to take this trip. The columnar section on the last page shows the formations exposed here. The outcrops lie east of the railway right of way, and can be reached either by walking up the road and to the north along the railway to the ravine, or by following the stream up from the parking place. Formations 1 to 7 inclusive of the section on the last page are exposed in the ravine, although only the base of formation 7, the Onondaga limestone, is to be seen and that only at a point about  $\frac{5}{8}$  mile east of the railway.

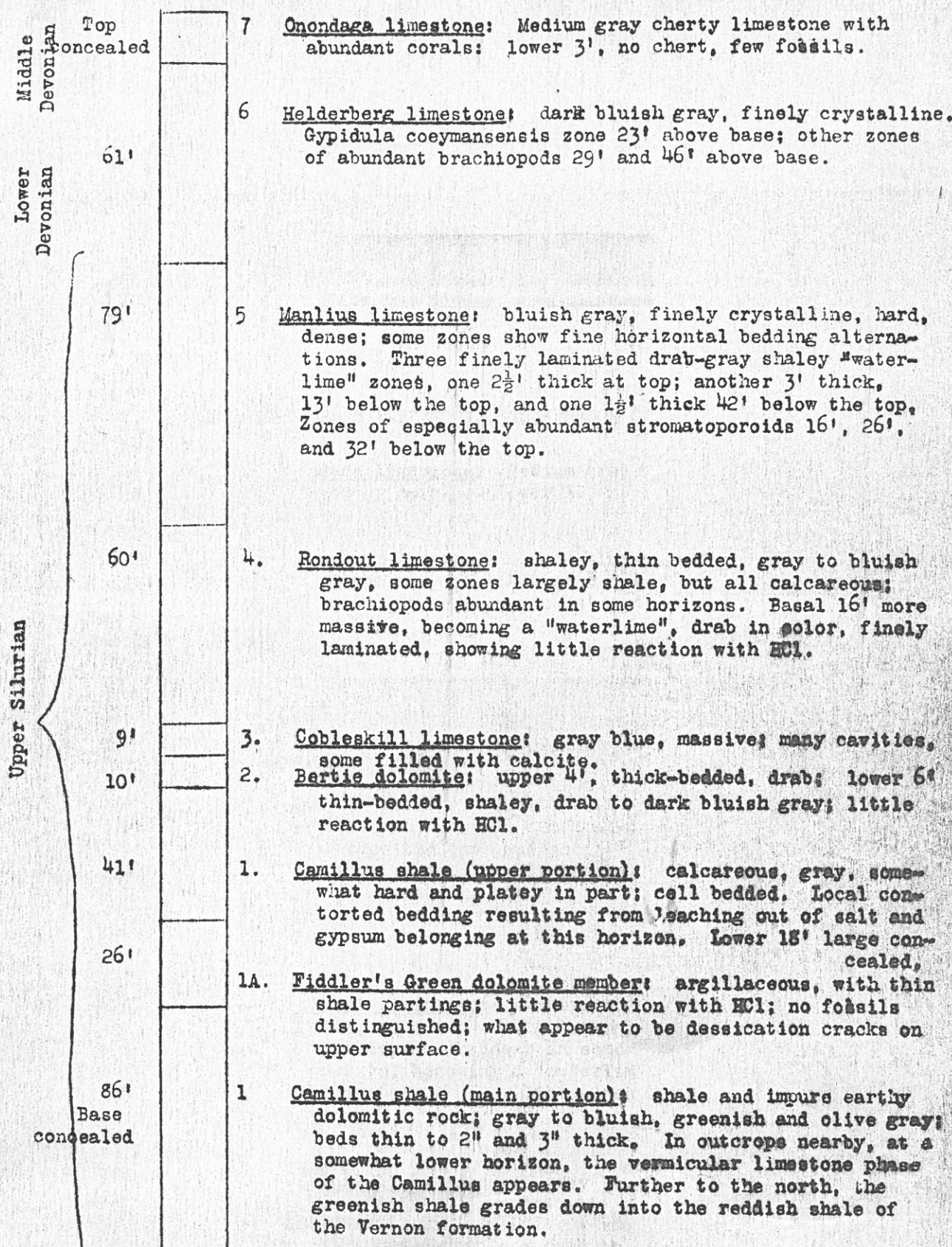
COLUMNAR SECTION OF FORMATIONS EXPOSED IN VICINITY OF STOCKBRIDGE FALLS



Beds 5 to 7 inclusive, are exposed within a radius of ¼ mile from the picnic grounds; the top of bed 7, and beds 8 and 8A are exposed upstream at a distance of about ½ mile and more, and can be reached readily by

COLUMNAR SECTION OF FORMATIONS EXPOSED IN STOCKBRIDGE STATION RAVINE

4.





ITINERARY FOR SATURDAY MORNING.

8. Proceed from Hamilton to Pine Woods. On right at Pecksport R.R. switch and crossing is Pecksport shale. At Pine Woods hard Solsville sandstone makes ledge on both sides of road. Pecksport is exposed above it along road leading northward. At foot of hill to west is the upper part of Bridgewater shale.
- 9 & 10. From Pine Woods take Eaton road to base of hill (about two miles). Mottville limestone exposed at base of hill, overlain by Delphi. Latter becomes sandier vertically. Pompey is in gutter near top of hill. Berwyn dark shale caps hill. On west side of hill near R.R. bridge is upper Delphi.
11. Take road to Randallville then 12-b to Red Gate Stock Farm. Colgate member in quarry and cliffs. Stonemill limestone (Centerfield age) forms cascade. Lower Ludlowville in ravine above falls.
12. From Red Gate proceed to Lebanon. One-half mile south of village on west side of ravine is Portland Point and basal Moscow.
13. Proceed to point 1 mile NE of Georgetown--upper Moscow, Tully and Geneseo in gully. Geneseo beside road and Sherburne in gully on side of old road to south.

After Georgetown exposures Dr. Cooper will conduct interested parties to Sherburne, Unadilla Valley and Butternut Valley to see Tully exposures. Stop in Sherburne for sandwiches.