

## DISCLAIMER

**Before visiting any of the sites described in the New England Intercollegiate Geological Conference guidebooks, you must obtain permission from the current landowners.**

Landowners only granted permission to visit these sites to the organizers of the original trips for the designated dates of the conference. It is your responsibility to obtain permission for your visit. Be aware that this permission may not be granted.

Especially when using older guidebooks in this collection, note that locations may have changed drastically. Likewise, geological interpretations may differ from current understandings.

Please respect any trip stops designated as “no hammers”, “no collecting” or the like.

Consider possible hazards and use appropriate caution and safety equipment.

NEIGC and the hosts of these online guidebooks are not responsible for the use or misuse of the guidebooks.

The 23rd Annual New England Intercollegiate Geological Excursion

Dates - Friday and Saturday, October 14 and 15, 1927

Locality - Vicinity of Worcester and Clinton, Massachusetts

Program

Friday afternoon the party will visit, first, the esker at Hadwen Park, the watergap at Pachachoag Hill, and view the Tertiary course of the "Auburn" River. On the way excellent exposures of Worcester phyllite will be seen. From there the party will proceed to the Ballard Quarry and vicinity where the problematic Bolton gneiss, and the associated granites and schists will be studied. The party will then proceed to Purgatory which the Crosbys' made their type for "keystone" faults. Joseph H. Perry, veteran geologist of Worcester, will be the guest of honor. The party will leave Jonas G. Clark Hall, Clark University at 2:30 p.m. sharp from the Main Street side.

Supper will be at the College Commons after which the party is invited to gather at the Geological Laboratory, Jonas G. Clark Hall, where there will be an informal review of the features seen during the afternoon and an outline of the features to be seen on Saturday.

Saturday Wigwam Hill and the Worcester "coal mine" will be the first visited. The party will then proceed to Clinton, observing on the way the old outlet and channel of glacial Lake Nashua; outcrops of Oakdale quartzite; the early Tertiary drainage wind gap; the old lake outlet establishing a level for Clinton delta plains of Lake Nashua; and other early tertiary drainage - "The Acre" and Bolton Station gaps. In Clinton and beyond will be seen the preglacial divide at Lancaster Mills dam, -other tertiary drainage adjustments - the broad valley (peneplain) of the Nashua River in Clinton and Lancaster; glaciated ledges at Scrabble Hollow School; andalusite (Chiastolite) at George Hill; "Lancaster Plain" development of the Clinton delta plains; and the "Mossy Pond Plain". Returning to Worcester via West Boylston, the "North Dike Plain" and buried gorge of the preglacial Nashua will be studied, and a conglomeratic phase of the Worcester phyllite south of Boylston Common visited. The party will then disband as desired but transportation back to Worcester will be furnished if desired.

Maps and Literature

All the localities to be visited are found on the Quinsigamond Quadrangle (scale  $\frac{1}{125000}$  If the  $\frac{1}{62500}$  maps are used the Worcester, Webster, Blackstone, and Marlboro quadrangles will be required.

The following are the important references on the geology of the region:

- Alden, Wm. C. - The Physical Features of Central, Mass., U.S. Geol. Surv., Bull. 760-B.  
Crosby, W. O. - The Geology of the Wachusett Dam and Wachusett Aqueduct. Tech. Quart. 12: 68-96 (Continued as a discussion of Glacial Lake Nashua in 12:198; 16:240-254, with map; 17:37-75)  
Crosby, W.O. and Irving J.- Keystone Faults. B.G.S.A. 36: 623-640.



Brown, Robert M. - The Study of Home Geography  
 Emerson, B.K. - Geology of Massachusetts and Rhode Island.  
 U.S. Geol. Surv., Bull. 597 (See index under Worcester and Worcester  
 County).

Perry, J.H. - The Physical Geography of Worcester, Mass.  
 Worcester Natural History Society, Worcester, Mass.

Perry, J. H., and Emerson, B. K. - Geology of Worcester,  
 Massachusetts, Worcester Natural History Society, Worcester, Mass.

Hotels

	Without Bath		With Bath		
	Single	Double	Single	Double	
Bancroft-Franklin St.	\$2.75	\$4.50	\$3.50	\$5.50	(double bed & shower)
		(double bed)		6.00	(twin " " " "
		\$5.00		7.00	( " bed & tub)
		(twin beds)			
Standish-767 Main St.	\$2.00	3.50	\$2.50	"	
			3.00	\$5.00	
Warron-Front St.	\$2.00-	\$2.50	\$3.00-	\$5.00-	
		\$3.50	\$3.50	6.00	
		4.00			

Trains

The location of Worcester, on the Boston and Albany railroad midway between Boston and Springfield, makes it easy of access. It also has direct rail connection with Providence to the south and Nashua to the north.

All who plan to attend the meeting please notify H. P. Little Clark University, Worcester, Mass., by October 12.

It is necessary to make the excursion in automobiles; therefore kindly state whether you will bring a car and if so, how many you can accommodate.

Hotel reservations will be arranged if requested with specification as to the kind of accommodation required.



1. Hadwen Park edder, Turn N Main St at Heard.

Take first left after crossing R.R. Leave at 2.30.

2. Pochanough Hill to view Androm River. Leaving park, go 1 block left over to Webster St, paved road, left 1 block on Webster St, right on Hope Ave. During left after crossing R.R. tracks, follow trolley 1 mile to Keatinge Sq. Turn right up the hill on paved road.

3. Ballard Field. Retrace steps Lv. 3.30

To Keatinge Sq, to Cambridge St.; keep right 1 block to Middle River Road and follow to Quinsigamond. Exit at Am. Steel and Wire to Ballard St. - left across R.R. Turn right and follow electric 2 miles to Plantation St. Lv. 4.15

4. Ballard St. Quarry. Continue along Ballard St. about another .3 mile to Melder road on left. Drive up hill, turn right to quarry, Lv. 5.00

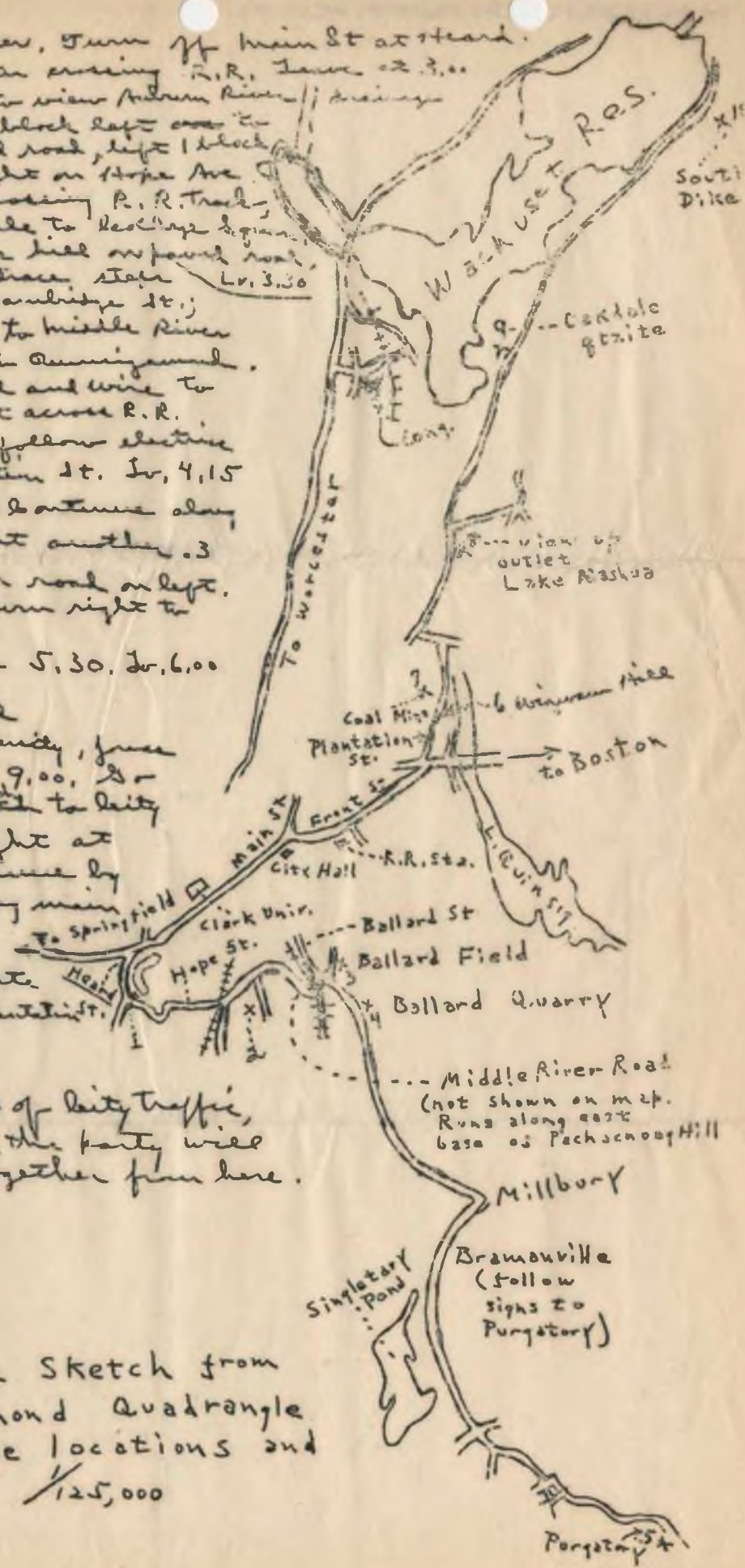
5. Purgatory. Arrive 5.30. Lv. 6.00

6. Quinsigamond Hill. Dr. Clark University, from Clark Hall at 9.00. Go down main street to City Hall, Turn right at Front St., continue by station and along main Boston Highway.

Turn left at State Hospital on Plantation St.

7. Coal Mine.

Being well out of city traffic, it is assumed the party will easily keep together from here.



Rough sketch from Quinsigamond Quadrangle with some locations and streets. 1/25,000