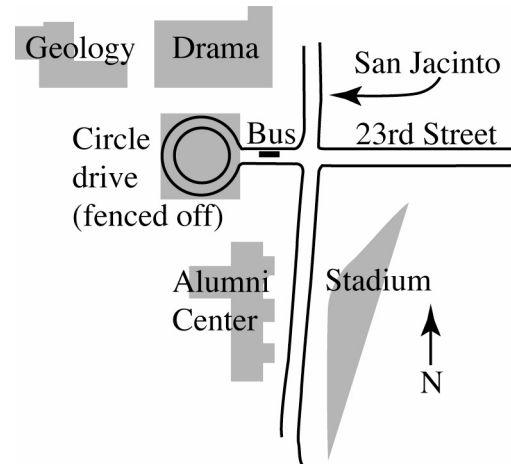


## ANNOUNCEMENT

Drs. Long and Ketcham are sponsoring a geology field trip to the Llano Uplift to be held on *Saturday, October 9*. You are invited to participate in this excursion, which will last approximately 10 hours and cover a distance of 175 miles. Please meet the chartered bus at 8:30 a.m. The bus will be parked on a short stretch of 23<sup>rd</sup> Street, diagonally opposite the Stadium (see the map). The bus is air conditioned, with restroom facilities, and equipped with a public-address system that enables us to discuss features of the landscape and answer questions as we ride along. Best of all, the cost of chartering the bus has already been paid; you will ride for free!



All participants will sign a release form to be provided at the start of the trip. We will also provide a 9-page illustrated handout containing a road log and more detailed descriptions of the geology.

*Bring with you:*

1. Your lunch. (Alternatively, near noontime we will stop where you can purchase junk food.)
2. Camera, sacks for samples, etc., as you please. Wear shoes suitable for a bit of field walking.
3. You may also bring guests, at a cost of \$5 per person (used mostly to pay a tip to the bus driver), as long as we have space on the bus. Students registered in GEO 303 have priority.

*Things we will see and discuss:*

- Balcones Fault System, Texas Hill Country topography.
- Cretaceous limestones—their origin and history of erosion.
- Paleozoic sedimentary rocks, including dolomite of tidal-flat origin with algal structures, and sandstone full of a peculiar green mineral called glauconite.
- Paleozoic-age huge faults along which the movement in some places has placed sedimentary rocks against granite.
- Precambrian pink granite of building-stone quality. Discussion of the minerals and texture of granite. Pegmatites. Topography in a terrain underlain by a granite batholith. Granite weathering.
- Unconformities (buried surfaces of erosion) between sedimentary strata and Precambrian basement.
- Longhorn Cavern (just to its mouth—not a tour). Processes that form and destroy caverns.
- Valley Spring Gneiss (Precambrian metamorphic rock). Discussion of the origin of this rock, and of the great mountain range that once existed in the region of the Llano Uplift.

There is likely to be at least one bonus surprise stop, possibly two!

(Other side: a page from the field guide handout, a geologic map of the area we will visit)



(over)

- A graphite mine. Discussion of the origin of graphite and operations of mining and removal of graphite from the rock.
- Collection of abundant fossils of oysters, snails, clams, and some rare fossils too.

Note: this is substantially the same trip that was led by Dr. Long in February; it is your second opportunity to participate. If you went on the earlier trip and liked it and want to go again, you are welcome to do so.