



*Field Trip*

***"Geology of the Stony Brook University Campus"***

**Gil Hanson and others**

Stony Brook University

**Saturday June 25, 2005**

A wide variety of geologic features are found on the 1200 acre campus which is located on the Stony Brook moraine (Sirkin) also known as the Harbor Hill moraine. On this field trip we will

- ✍ evaluate the types of boulders and the constraints that they may place on the path of the glacier and the nature of the basement underlying Long Island Sound
- ✍ discuss the age and source of loess on campus
- ✍ consider the environmental impacts of a variety of landscapes on campus including formal gardens, a birch garden, high maintenance and low maintenance lawns, groundcover plantings, natural forest, etc.
- ✍ consider the use of recharge basins
- ✍ describe the features and origins of abandoned stream valleys
- ✍ describe the origin of a fold and thrust belt developed by glaciotectonics
- ✍ visit the hummocky terrane developed on the southern part of the campus
- ✍ walk across the contact between the Terryville Outwash Plain and the Stony Brook Moraine
- ✍ stand at the peak of the Stony Brook Moraine and look out to the south across the Terryville outwash plain toward the Ronkonkoma Moraine in the distance
- ✍ visit the Brookhaven Town Kettle Hole Park and enter a well developed kettle hole.

We will meet at **9 a.m.** in room 123 of the Earth and Space Sciences (ESS) Building. We will walk about five miles total. Wear sturdy walking shoes or boots. The tour will finish by **5 p.m.**

Be prepared for inclement weather. We will go **rain or shine**. Bring **lunch and drink**.

If you wish to participate, we need to know by **Tuesday, June 21**. Make your reservations by sending a check for \$10.00 per participant made out to Stony Brook Foundation.

Long Island Geologists  
Earth and Space Sciences Building  
S.U.N.Y.  
Stony Brook, New York 11794-2100  
Tel. 631 632 8200

Long Island Geologists web site is [www.geo.sunysb.edu/lig/](http://www.geo.sunysb.edu/lig/)

**Directions to Stony Brook University and ESS Building**

From exit 62 of the Long Island Expressway (LIE, I-495) follow Nicolls Road (Route 97) north for nine miles.

Pass the South and Main entrances to the University.

Enter the North entrance which will be on your left.

At the top of the small hill, turn right on Circle Road.

Proceed about 1 mile to the third stop sign.

Turn left onto Campus Drive and then immediately turn left again onto John S. Toll Drive.

Proceed about 50 yards then turn right into the large paved parking lot.

The Earth and Space Sciences building is the large concrete building at the northeast end of the parking lot.

Map of campus is on the web at: [www.stonybrook.edu/sb/map/](http://www.stonybrook.edu/sb/map/)

**7.5 contact hours toward in-service credit**

Enclosed is a check for \$\_\_\_\_.to reserve \_\_\_\_places for the Field Trip on June 25, 2005.

Name(s) \_\_\_\_\_

Affiliation \_\_\_\_\_

Address

\_\_\_\_\_Town\_\_\_\_\_State\_\_\_\_\_Zip\_\_\_\_\_

Phone Number \_\_\_\_\_ Fax Number\_\_\_\_\_ e-mail\_\_\_\_\_

I would like an in-service credit letter. \_\_\_\_\_