

Field Trip

**"BedrockGeology of NYC:
More than 600 m.y. of geologic history"**

**Pam and Pat Brock
Queens College**

Saturday October 27, 2001

We will visit NYC parks to see rocks that record critical stages of NY's long geologic history. Discussion will touch on our recent discoveries regarding the age and origin of the rocks. In Queens, we will see the Late Neoproterozoic "Ravenswood Granodiorite", the only lithologic unit to crop out on Long Island. At Inwood Hill Park in Manhattan, we will find the Late Neoproterozoic Manhattan Schist, and then Cambro-Ordovician Inwood Marble in neighboring Isham Park. At Van Cortlandt Park, the Bronx, we will see Fordham Gneiss, the billion-year-old basement. We will finish at Pelham Bay Park in the Bronx, where we will examine the exotic Cambro-Ordovician Hartland terrane. Along the way, we will encounter deformation, metamorphism, and granitic intrusion related to Taconian and Acadian orogenies.

Participants from Suffolk County can meet in the large ESS parking lot at SUNY Stony Brook; our bus will depart promptly at 7:00 a.m. for Queens College. Participants from western Long Island meet at Queens College by 8:00 a.m., by the Melbourne Ave. gate. We plan to return to Queens College by 4:30 p.m.; then, the bus will continue back to Stony Brook arriving by 6:00 p.m.

We will go rain or shine. There will be no refunds. Bring lunch and drink.

Directions to SUNY Stony Brook 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 North Loop Road. Proceed about 1 mile to first stop sign. Turn left onto SAC Drive and then immediately turn left again onto Center 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.sunysb.edu/doi/maps.html

Directions to Queens College

Queens College is located on the south side of the Long Island Expressway at the Kissena exit (#24). From the LIE, turn south on Kissena Blvd., then right (west) onto Melbourne Ave., along the south side of campus. Angle parking there is free on Saturdays. Meet at the gate, by the first traffic light.

If you wish to participate, we need to know by Tuesday, October 23. Make your reservations by sending a check for \$30.00 per participant made out to Long Island Geologists. No confirmation will be sent.

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

Tel. 631 632 8535; Fax 631 632 8240

In-service credit is available for teachers.

During the 2000-2001 academic year we will be offering one-hour of in-service credit for each of the: six Geology Open Nights, and three Long Island Geologists Dinners We will offer 7.5 hours of in-service credit for the conference on the Geology of Long Island and Metropolitan New York in April 2001. We will offer up to 7.5 hours of in-service credit for Long Island Geologists field trips. You may also be interested in the Astronomy, Physics and Biology Open Night programs, which also offer in-service credit. The Science Open Night programs at Stony Brook can be found on the web at www.astro.sunysb.edu/openight/openscience.html

Cut Here-----

Enclosed is a check for \$____.to reserve ____places for the Field Trip on October 27, 2001.

Name(s) _____

Affiliation _____

Address _____ Town _____ State _____ Zip _____

Phone Number _____ Fax Number _____ e-mail _____

If you are a teacher, would you like in-service credit? _____

I (We) will meet the bus at _____ SUNY Stony Brook _____ Queens College.