



**Civil Engineering and Geological Sciences
2011 Junior Class Field Trip
New York City Infrastructure Basics
September 22 – 25, 2011**



PURPOSE OF OUR ANNUAL FIELD TRIP: To expose students to some of the biggest and most innovative infrastructure design and construction efforts going on in the United States; to provide an opportunity to see first hand that the need to rebuild our often failing infrastructure is huge and to learn about the complexity of these structural, transportation, water resources, and environmental projects that keep our nation productive, efficient and healthy; and to interact one on one with project and design engineers. These trips help students see the wide range of opportunities available to become innovative leaders and also help connect the classroom to the real world.

THURSDAY, SEPTEMBER 22

5:15 am **Meet at Royal Excursion bus – pick up at Eck Visitor Center**

5:30 am **Departure for NYC**
Bus leaves promptly at 5:30am
10 ½ hours driving time to Lehigh + 45 min lunch, 30 min of stops

5:30pm **Dinner at [Bethlehem Brew Works](#), 569 Main Street, Bethlehem, PA 18018, 610-882-1300**
“The steel industry would not have reached its grandeur without Bethlehem. Let’s consider it the left hand of a Pennsylvania industry that helped to build a nation. A nation of skyscrapers and bridges, constructed of refined iron ore and intense labor that few modern men could imagine. Men so intent on working together to achieve a dream.”

7:00pm-8:30pm **[ATLSS Center, Lehigh University, Bethlehem, PA](#) 117 ATLSS Drive, Bethlehem, PA 18015**
Tour of ATLSS, Advanced Technology for Large Structural Systems, established at Lehigh University in 1986 with a grant from the Engineering Research Centers (ERC) program of the National Science Foundation. Located in the Imbt Laboratories on Mountaintop Campus at Lehigh University, ATLSS focuses on the full life-cycle structural systems and materials for infrastructure, including, for example, developing new systems and materials, assessing the condition of existing systems and materials, developing technology for addressing conditions, understanding system and material failures, and developing technology for repairing and retrofitting existing systems.



8:30pm - 10:30pm **Travel to [Hilton Times Square](#) 234 West 42nd Street, New York, NY 10036**
212-642-2600 (41st street entrance between 7th and 8th Ave – look for the large white clock)



FRIDAY, SEPTEMBER 23

AECOM Transportation will be providing breakfast

7:45am **Meet at bus – departure for AECOM** (*need boots or hard sole shoes*)

8:30am – 11:30am **[AECOM, 20 Exchange Place](#) (15th floor)**
Presentation on **[Second Avenue Subway](#)**
Presentation on **[World Trade Center Transportation Center](#)**
World Trade Center Transportation site

11:30am-noon **Travel to [Empire State Building](#)**
350 5th Ave. between 33rd and 34th Sts, 32nd floor, Skanska USA Building

12:00pm – 1:00pm **[Skanska USA Building, 32nd floor](#)**
Lunch and Brief Skanska Overview
Presentation of Skanska's LEED Platinum Commercial Interior Office Fit Out – Tri Tran,
Preconstruction Director
Observatory of the Empire State Building

2:30pm - 3:00pm **Travel to Brooklyn Bridge project site**
Drop off at Robert Wagner Place, off of South St.

3:00pm-5:00pm Presentation inside the abutment of one of the ramps
Site tour and walk over the Brooklyn Bridge promenade, ending tour at the Washington St. yard in Brooklyn

5:00pm **Five minute walk to dinner**

5:00pm – 7:00pm **[Bubby's, 1 Main Street, Dumbo, Brooklyn 718-222-0666](#)**
"American cookery at dinner: Our vision is to preserve and promote the integrity of American cooking. We use ingredients which are mostly organic, and are sourced almost exclusively from local farmers, ranchers and food purveyors, who are conscientious in their practices as we are in our cooking. Bubby's DUMBO provides the most magnificent view of the city. Nestled right on the river between the Brooklyn and Manhattan bridges, there is no view that parallels it. The view from Bubby's has been seen on countless films, television shows, and postcards throughout the world. It is "the view" of New York City. Winner of 2010 Diner's Choice award by OpenTable."

7:00pm Bus will have to cross the Manhattan Bridge to pick us up at 7pm at Bubby's for travel to Columbia University

7:00pm-7:30pm **Travel to [Columbia University](#)**
Amsterdam Ave./116th Street – main Columbia entrance

7:30pm – 8:30pm **Visit to [Dept. of Civil Engineering and Engineering Mechanics](#), Columbia University**
Presentation on health monitoring of bridges

9:00pm – 9:30pm **Return to Hilton Times Square – pick up at Amsterdam Ave./118th Street**

SATURDAY, SEPTEMBER 24

- 7:00am Designated people will pick up bagels and we will eat on bus:
Times Square Bagel, 200 W. 44th St. 212-997-7300 – Right across from Shubert Alley on 44th
- 7:30am **Meet at bus – departure for East Side Access Queens Tunnel project (3.6 miles) (need boots or hard sole shoes – high boots for mud if you have them)**
Granite-Traylor-Frontier Joint Venture 29-76 Northern Boulevard, Long Island City, NY 11101
- 8:00am – 11:45pm **East Side Access Tunnels – Queens Bored Tunnels and Structures**
A joint venture team comprised of Granite Construction Northeast Inc., Traylor Bros. and Frontier-Kemper Constructors, Inc., was awarded a \$722 million contract by the MTA Capital Construction ("MTACC") in September 2009 to build the Queens Bored Tunnels and Structures for Long Island Rail Road's ("LIRR") East Side Access project in New York. The Queens Bored Tunnels and Structures contract is part of the LIRR's East Side Access project and is the last major link in the tunnels from Queens to Grand Central Terminal in Manhattan. When completed, the East Side Access project will bring Long Island Rail Road service, the busiest commuter railroad in the country, into New York's Grand Central Terminal providing a direct route between Long Island and eastern Queens to Manhattan's eastside. Scope of the work includes the excavation and the precast concrete lining of four bored tunnels beneath an active rail storage yard. Totalling over 10,000 linear feet or nearly two miles in length and approximately twenty-two feet in diameter, the tunnels will be excavated utilizing two tunnel boring machines, each weighing more than 500 tons.
- 12:00 – 3:30pm **Travel to [Public House, New York City](#) 140 East 41 Street, New York, NY 10017, 212-682-3710**
Watch football at the Official Gamewatch Location of the Notre Dame Club of New York
- 4:00pm **Walking tour of Midtown Manhattan**, from the Public House to Grand Central Station, north on Fifth Avenue up to Central Park and back to Times Square
- 8:30pm **[John's Pizzeria of Times Square](#), 260 W. 44th Street, New York, 10036**
"John's pizzeria has hosted many events since opening its doors in 1997. From the star-studded opening and closing parties for the hit television series The Sopranos to the resounding echo of the Harlem Boys Choir, this renovated church in Times Square has been host to all walks of life. The popular teen sensation The Jonas Brothers frequent John's whenever they are in New York City. Featured on the Travel Channel's Top Ten Pizzerias in the United States and host to the award winning dough tossing U.S. Pizza Olympic Team, John's is best known for the simplest of things: a smooth flavorful sauce, rich, melted cheese and perfectly charred crust."

SUNDAY, SEPTEMBER 25

- 6:30-7:15am Bagel breakfast – room location to be announced
Pack up and be ready to board bus at 7:15am
- 7:30am **Travel to [St. Patrick's Cathedral](#)**
460 Madison Ave., New York, NY 10022
- 8:00am Mass at St. Patrick's
- 9:00am **Bus pick up at St. Patrick's**
- 11:00pm **11 ½ hours from New York to South Bend, plus one and a half hour stops**

ADDITIONAL TRIP INFORMATION:

Packing - what you'll need:

Valid Government issued identification (Drivers License or Passport)

Easy to carry luggage

Small day pack or backpack for water bottle, sweater, layers, raincoat, etc.

Clothes for touring/job sites:

Jeans, layers of warm clothes

Shoes: work boots or closed-toed very sturdy shoes – above a “sneaker” type of shoe for safety purposes

For tunnel – high mud boots if you have them, Can be very muddy down in tunnel...

Coat, hat, gloves if needed

Raingear in case of rain – raincoat, umbrella

Clothes for Mass on Sunday

Water bottle

Food/drinks/snacks for bus on Thursday and Sunday (or money to purchase along road)

Wi-fi on bus: There will be wi-fi on the bus, and outlets at the seats. But, please remember that the bus company is not responsible for keeping track of any personal items during the trip.

Hotel rooming list: Will be distributed on the bus. Upon arrival at the hotel, one person from each room should go to the counter to get the room key.

Traveling as a group: There have been a few requests for field trip participants to visit friends or relatives while we are in New York City. As per University sponsored trip guidelines, we are traveling as a group, and we need to stay with the group. If you have family in the New York City area and they would like to meet up with the group for a dinner or at the hotel at the end of our day, that would be fine. Please let us know ahead so that they can be added to the meal count.

Expenses/Meals:

All trip expenses are being paid through the generous support of the Murphy Travel Fund, and by the College of Engineering and the Department of Civil Engineering and Geological Sciences, except for breakfast/lunch on Thursday during the bus ride (either bring along in backpack or buy when we stop at rest stops along the way) and dinner on Sunday during the bus ride (either bring along in backpack or buy when we stop at rest stops along the way).

Hosts in New York City: AECOM, Skanska USA Building, Columbia University, Skanska Koch, Skanska Civil Northeast, Granite Construction Northeast, Inc., Lehigh University

SPONSORS: All costs for this trip are provided to the Junior Class through the generous support of the Murphy Travel Fund, the Department of Civil Engineering and Geological Sciences, and the College of Engineering.

Important Trip Phone Numbers:

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