





SUMMARY OF 2016 UB NATIONAL SUMMER TRANSPORTATION INSTITUTE

July 11 – 15, 2016





Closing Remarks



Liesl Folks
Dean, School of Engineering and Applied
Sciences, UB



Lottery for Board Games

Dean will randomly pick **four** names from the box and these students will receive our railway board game.





Summary of NSTI Program Curriculum

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1 University Tour	Earthquake lab, Driving simulator lab, etc.
10 Lectures (1 hr each)	Career Opportunities in Transportation
	Highway Transportation
	Freight Transportation
	Social Media and Transportation
	Wind Engineering and Hazard
	Driving Simulator
	Navigation System
	Construction and Transportation Infrastructure
	Basswood Bridge Design
	Transportation Practice in NY State
	Traffic Data Collection and Signal Optimization
4 Projects (3-5 hr each)	Railway Network Design Game
	Basswood Bridge Design
	Bridge Design with Software
	The Railroad Museum
	Traffic operation center at Niagara International Transportation
3 Field trips (3-4 hr	Technology Coalition (NITTEC)
each), 5 hosts	Erie canal cruise at Lockport
	Air Control Tower
	Field Tour of Buffalo Niagara International Airport
3 Enhancement	Team Building
activities (1-3 hr each)	College Preparation and Admission Process
	PowerPoint Presentation Preparation
"Trivial" questions	small questions for daily lectures

The Sta

University Campus Tour (Mon)







Academic: Lectures

 Career Opportunities in Transportation

Athena Hutchins

Executive Director
Niagara International
Transportation Technology
Coalition (NITTEC)

- Discuss various opportunities within the transportation career, including government, industry and academia.
- How to become an engineer
- What is Professional Engineer (PE)



Academic

 Introduction to Freight Transportation

Qian Wang

Assistant Professor Civil, Structural and Environmental Engineering, UB



- Understand the existing freight transportation system.
- Learn how to analyze freight cost in NYC



Academic: Lectures

 Transportation Practice in NY State

Susan Surdej

Assistant to the Regional Director Regional Public Information Officer NYS Department of Transportation -Region 5

- Introduce mission, current transportation practice and future development of NYS Department of Transportation
- Lots of project pictures in incident management, winter operations, etc.





Academic



The State University of New York

Academic: Project

Project: Basswood Bridge Build

Yu Cui and Kevin Westermann

Civil, Structural and Environmental Engineering, and Industrial and Systems Engineering, UB

- Build your own bridge with paper, basswood, scissors and glue.
- It took three days to finish the project. Mon- design and build, Tue-Wed- build, Friday- Test









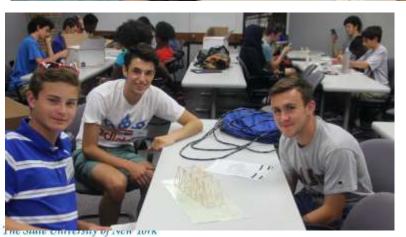
Basswood Bridge Build – Day 2 and Day 3



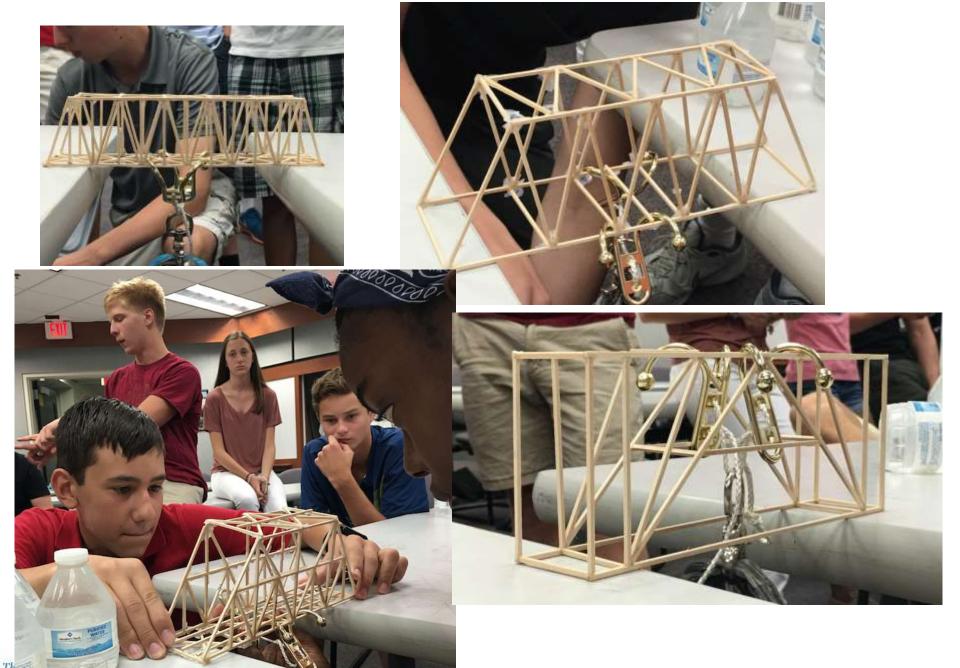








Basswood Bridge Test – Day 5



Academic Projects

Highway Transportation (Tue)

project: Traffic Simulation and Signal Optimization





Academic: Lectures and Projects

 Construction and Transportation Infrastructure (Thu)

Project: Bridge Design with Least Cost





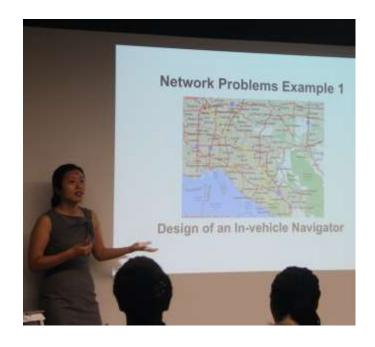




Academic Project

- Navigation Systems (Thu)
 - project: Railway Network Design Game







The State University of New York

Field Trips

- Trip 1: Land transportation (Tue):
 - 1.1 The Railroad Museum









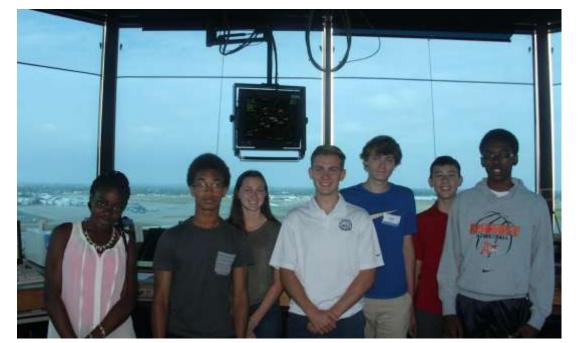


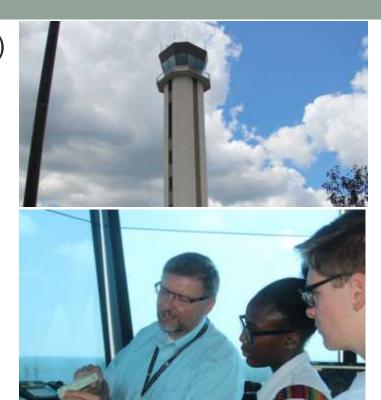
Field Trips

- Trip 1: Land transportation (Tue):
 - 1.2. Traffic operation center at Niagara International Transportation Technology Coalition (NITTEC)



Field Trips • Trip 3: Air transportation (Wed) • Air Control Tower









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Field Trips

- Trip 3: Air transportation (Wed)
 - Buffalo Niagara Airport Tour





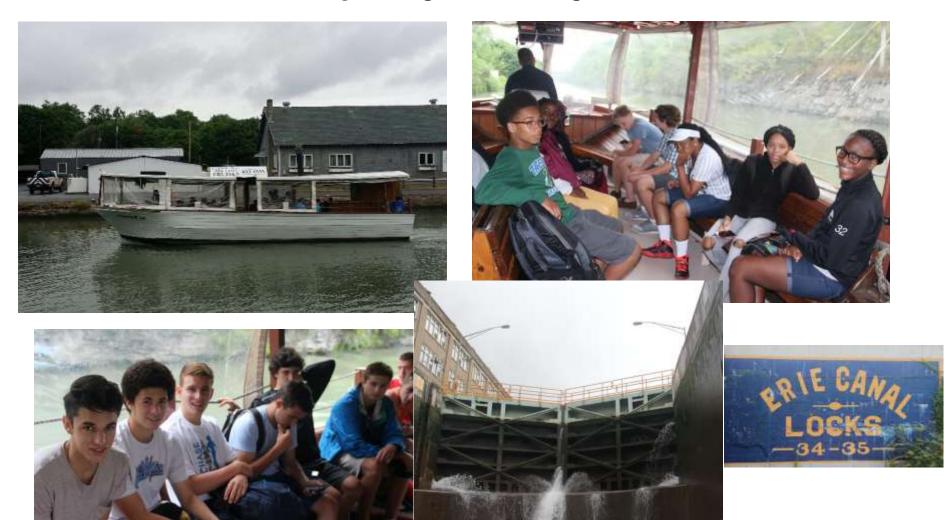




Field Trips

University at Buffalo The State University of New York

- Trip 2: Water transportation (Thu):
 - Erie canal at Lockport
 - "Locking through" and being raised the 49 ft. elevation



Enhancement



Enhancement

College Preparation and Admission Process (Fri)

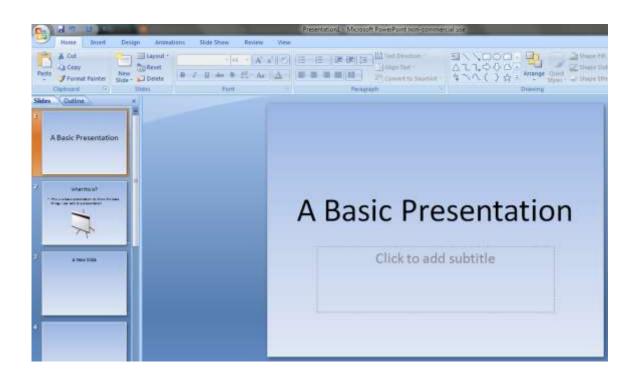




Enhancement

PowerPoint Presentation Preparation (Fri)







Daily "Trivial" Questions



Student Presentation

Order	First_name	Surname
1	Alex	Hartman
2	Andrew	Lin
3	Andrew(AJ)	Spero
4	Clayton	Karam
5	De'Amari(Dee dee)	Sanford
6	Edward (Eddie)	Тоссо
7	Grant	GianGrasso
8	James	Moore II
9	Jay	Robertson
10	Jeevi	Scarozza
11	Jeffrey	Schalberg
12	Jonathan	Fomenko
13	Josh-Lynne	Jenifer
14	Kevin	Roche

15	Lauryn	Whiteside
16	Malachi	Gates
17	Matthew	Sokolowski
18	Matthew (Matt)	Roche
19	Max	Wozniak
20	Michael (Mike)	Keane
21	Molly	Gillen
22	Nia	McFoy
23	Renaud	Tessier
24	Ricardo	Gomez
25	Riley	McLaughlin
26	Salvatore (Sam)	Sanflippo
27	Sasha	Chandler

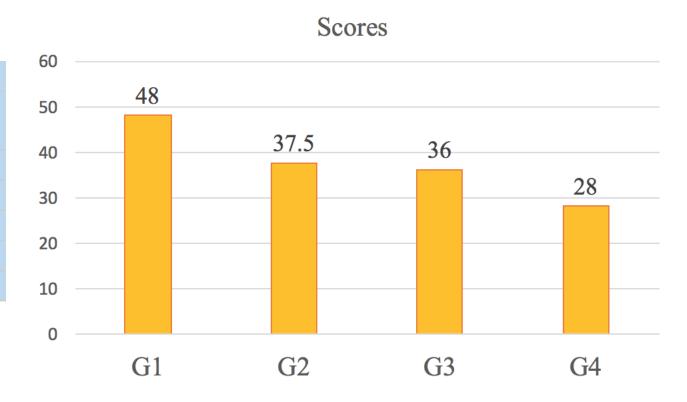
Group Competition in NSTI

- Four projects
 - Basswood Bridge design (20 points)
 - Traffic simulation and design (10 points)
 - Railway network game (10 points)
 - Westpoint Bridge competition (10 points)
- Trivial questions (10 points)
- Total 60 points



The Winner Team is

Group 1





Thanks to Our Staff: Kevin, Yu and Sky!



Hasta Luego!

Need your help for a future survey.



The State University of New York