

# Maine Summer Transportation Institute 2015

Music Chosen By Engineering Campers!

# DAY 1

## Surveying



Introducing Surveying Equipment

Calibrating paces



Best estimate of mall length by pacing

# Surveying



Calculating Length of mall based on paces

# Day 1

## Physics: Laws of Motion



Basketball vs bowling ball vs cannon ball



Can't quite lift the cannon ball

# Laws of Motion



Aerodynamics, floating ball



GETTING TP'D

# Day 2

## DOT Safety



Introduction to proper signage and road worker safety

# Department of Transportation



Creating safe work areas

# Day 2

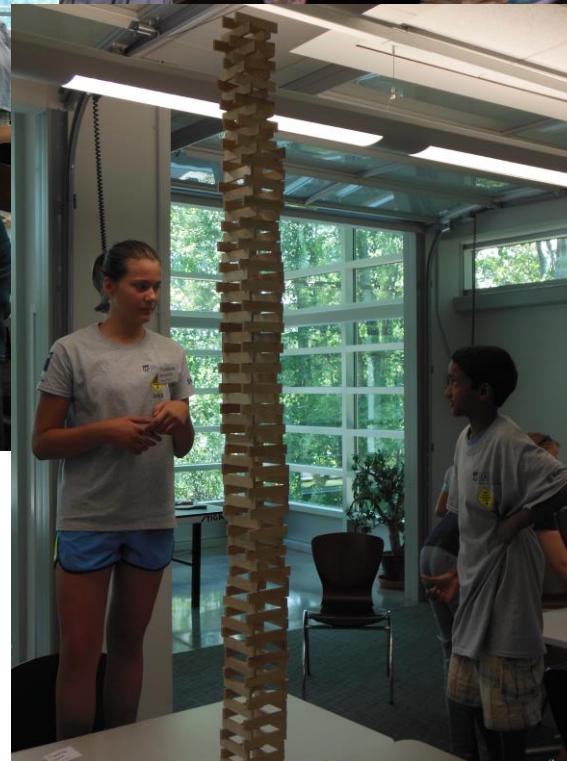
## Structural Engineering



Learning about different building materials



# Structural Engineering



Build the Tallest Tower!

# DAY 3

## Train Presentation and Tour



Train safety



Train Components

# Train



Going In to see the Controls



Inside the Drivers seat!

# Thanks for the Tour of the Train!



# Day 3

## Forest Bioproducts Research Institute (FBRI)



Tour of the Lab



All the Processing Equipment

# FBRI



Slime Time! Mixing the ingredients



Finished Product

# Day 3

## Old Town Airport



In the hanger, Questions and Answers



# Old Town Airport





# Day 4

## Maine Maritime Academy



Getting ready to board the boat



Out to sea!

# Maine Maritime Academy



Learning to drive the Boat

# Maine Maritime Academy



Sailing the Coast!

# Thanks Maine Maritime Academy!



# DAY 5

## Advanced Materials and Composites



Safety and Introduction to Research Projects



Bridge in a back pack

# Advanced Materials and Composites



Bullet Proof Tent



Windmill research

# Day 5

## Team Building



The human knot

# Fun and Games



The human knot



Homemade Skee ball show and tell



# Day 5

## Physics Light and Electricity



Powering light by hand



Powering light by bike

# Physics



Super strong magnets



Laser Show

# Physics



Nitrogen Rings



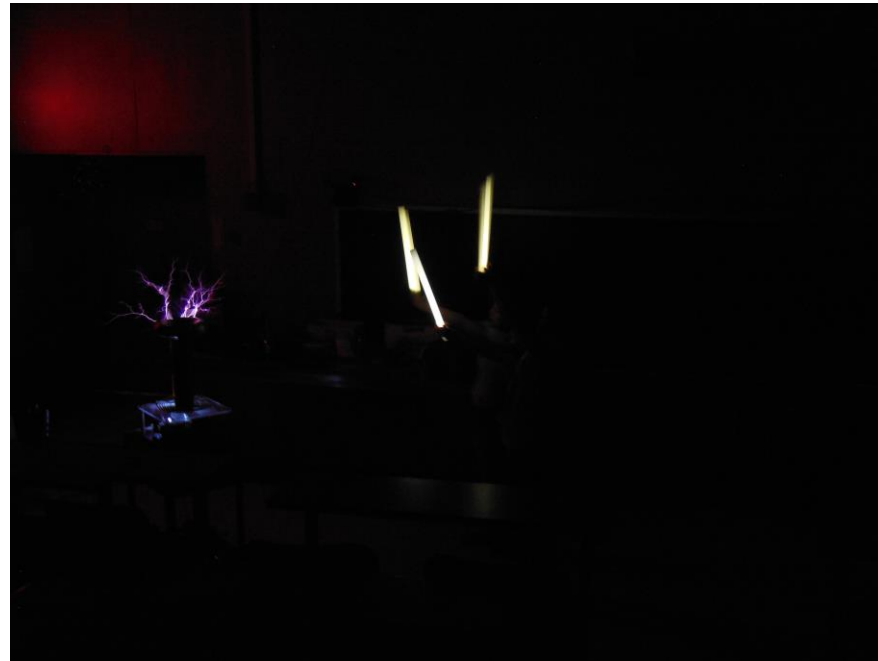
Shrinking the balloon

# Physics

## ULTIMATE POWER



Static Power!



Light by Tesla Coil!

# Day 5

## Rock Climbing



Rock climbing instruction



Suiting up!

# Rock Climbing



# Day 6

## Electrical & Computer Engineering (ECE)

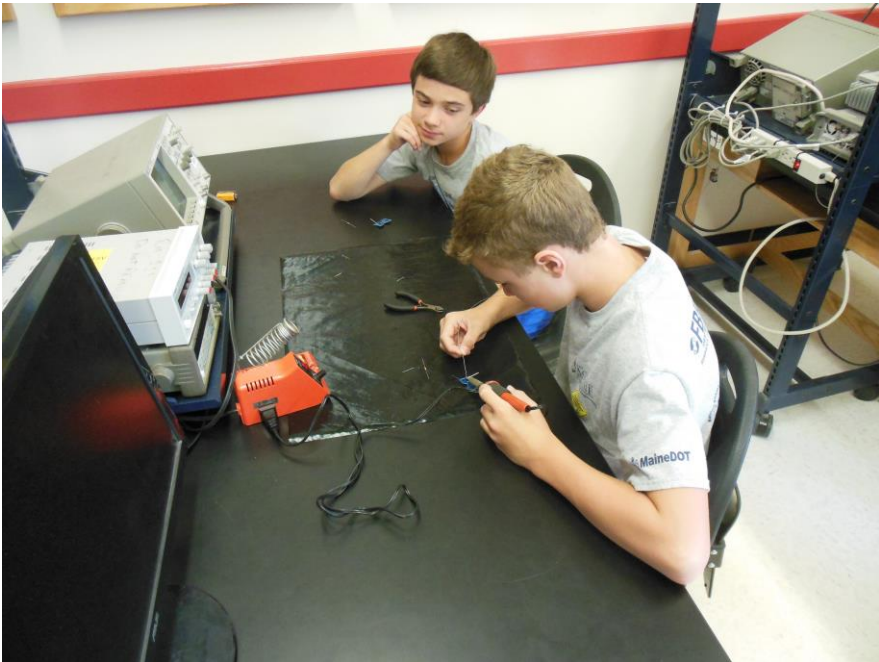


Instruction on soldering and building the circuit



Helping hand

# ECE



Soldering the circuit



Working Perfectly!



# Innovation Engineering

## Creating Board Games



Building game boards one at a time

# Board Games



Presentations!

# Board Games News Clip!



# Day 7

## Programming Using Minecraft



Getting Set Up



Coding Like Experts

# Programming Using Minecraft



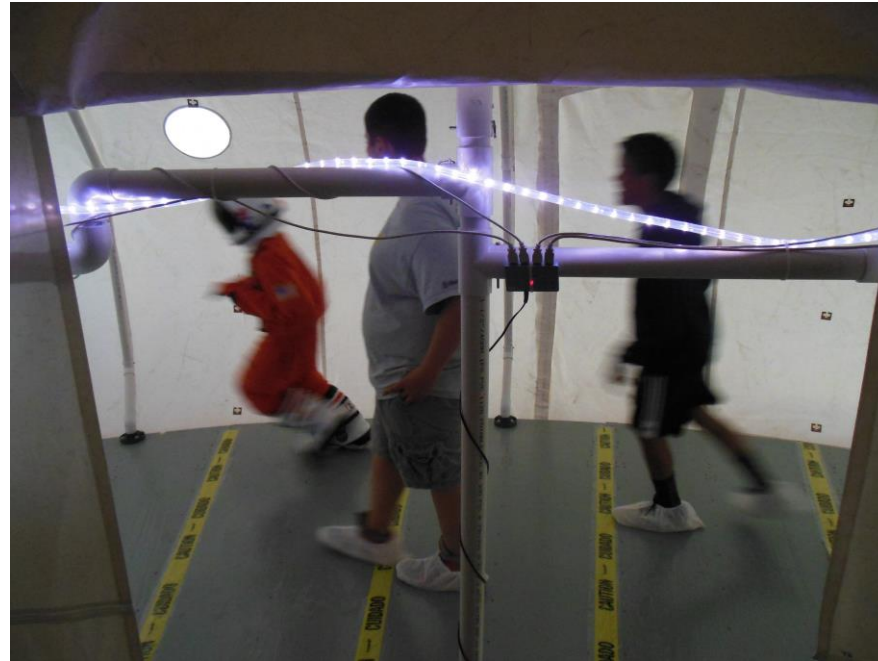
Making it happen!

# Day 7

## Lunar Habitat



Astronaut In training



Testing the Habitats Exercise area

# Lunar Habitat



# Day 7 Bike Safety



Proper Helmet Fit



Maintain a Safe Bicycle!



# Bike Safety



Going For a ride

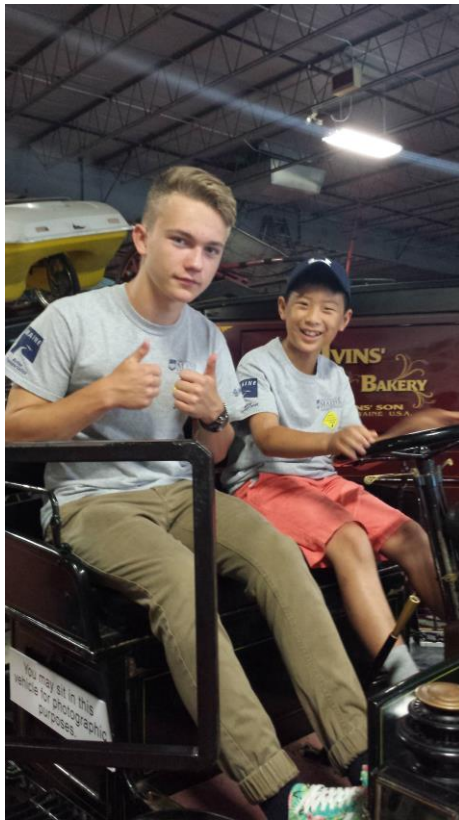
# Day 8

## Cole Land Transportation Museum



Million Mile Truck & Coles Own Semi With Double Front Axle

# Cole Transportation Museum



# Thank You Cole Transportation Museum!



# Day 8

## Bangor International Airport (BIA)



Experiencing Behind the scenes!

# BIA



Snow Removal Equipment

# BIA



View of Tower From Bus



View of Bus from Tower

# Day 9

## Bridge Competition

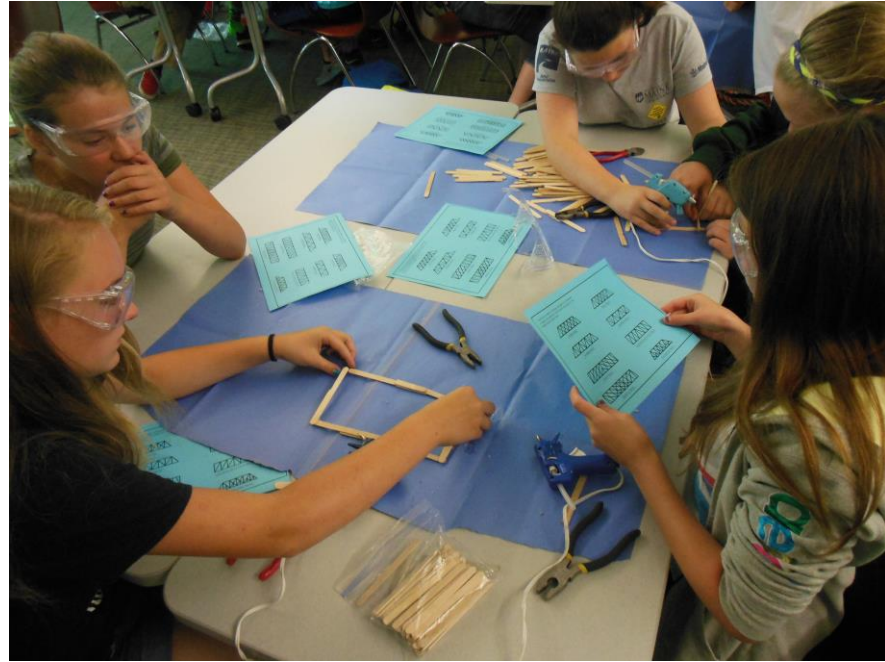


Master Bridge Builders

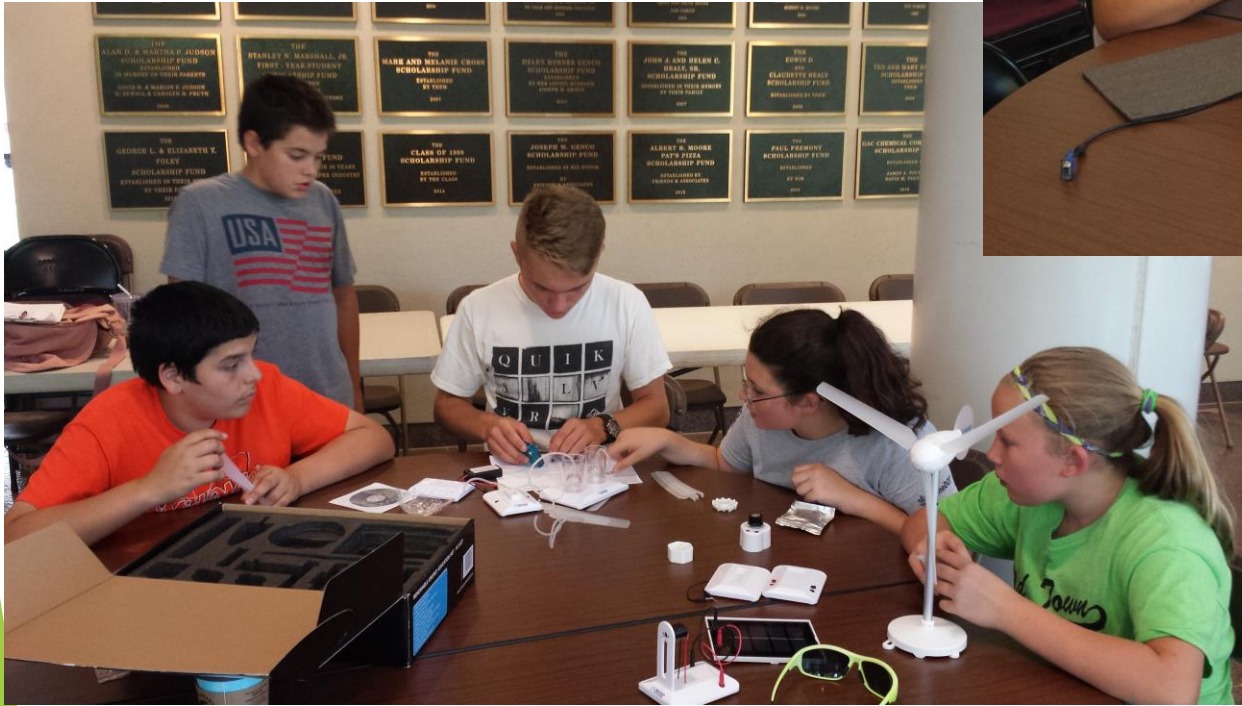




# Bridge Competition



# Day 9 Renewable Energy



And Now For some Candid Pictures!

# Random Pictures



# A couple More!



You will all make great Engineers!  
Thank You all for a Great Summer!

