



2023 National Summer Transportation Institute at CREATES

Pathway to 3D Printing with Dr. Islam Mantawy







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ATION IN
ENGINEERING SYSTEMS





New Jersey Transportation Challenges

Safety

- Over 280,000 crashes in 2015, over 1,400 killed
- Roadway deaths, pedestrian and bicycle, impaired driving, other drivers, and wrong-way driving

Mobility

- 28% of the state's roads are at capacity

Infrastructure

- Deficit of \$12.5B of the highway program

Aging Population

- By 2020, 20% of adults will be age 65 or older



HOWARD UNIVERSITY

Tour of the Ben Franklin Bridge



Delaware River Port Authority Presentation





Welcome to the Benjamin Franklin Bridge

SPEED LIMIT 45

NO BICYCLES

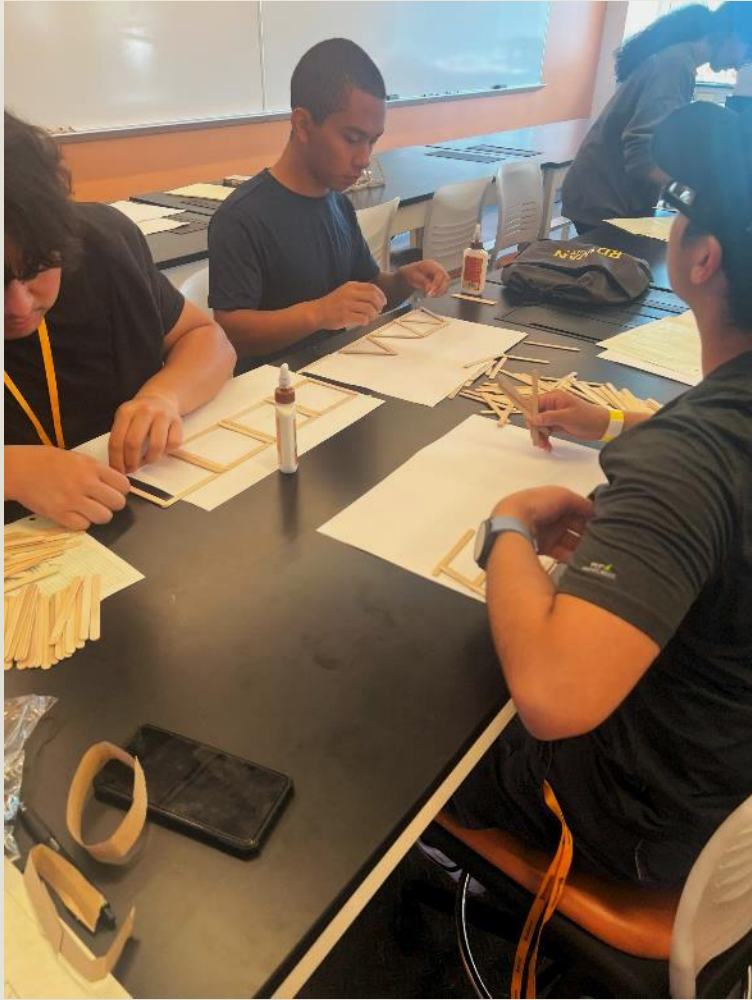
NO SKATEBOARDING

TRUCKS REQUIRED TO USE RIGHT LANE ONLY

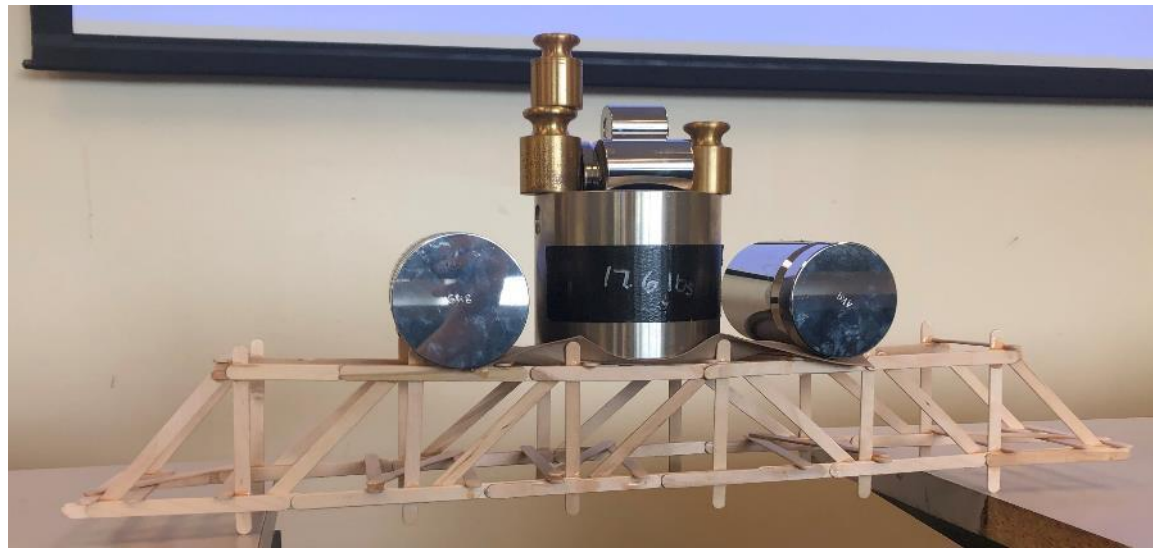
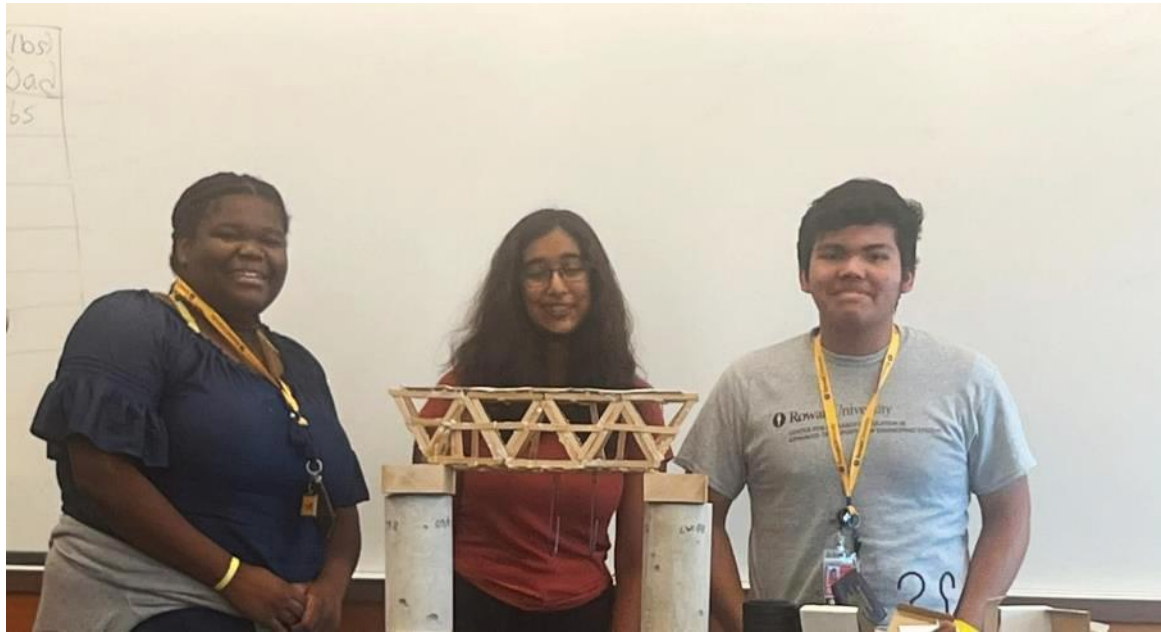
NC-421BH MS8117

PTL2222

Bridge Building Competition













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AIRPORT TECH

LOGY

FAA
AIRCRAFT RESCUE & FIRE FIGHTING
RESEARCH PROGRAM

OSHKOSH

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Alma Univer



FAA

AIRCRAFT RESCUE & FIRE FIGHTING

RESEARCH PROGRAM

AIRPORT TECHNOLOGY R&D

A group of approximately 20 young people, including students and staff, are posing for a group photo in front of the FAA truck. Many of the individuals are wearing lanyards with identification badges. The group is diverse in age and appearance. Some individuals are wearing branded t-shirts, including one that says "PLAYSTATION" and another that says "CAR CONNECTED". The group is standing on a paved surface, and the background shows a clear blue sky with scattered white clouds and some greenery.



SEPTA Command Center and Museum

← Regional Rail Lines

← Broad Street Line

Market Frankford L

← Broad Street Line

← Trolley Lines

← Regional Rail Lines

EXIT ONLY

NO SMOKING

EXIT



