

ACE Mentoring Annapolis High School

May 2011

A Semester in Review

Page 1 of 2

Mentors: Gilbane Building Company - Kelly Rosenthal, Ted Daniels, Tony Albanese, Phil Leach, Matt Karle, Rose Abousaid, Erica Gonzalez, D.J. Feather
Turner Construction Company – Bob Nilsson
CR Goodman Associates – Jason Winters
International Masonry Institute – Maria Viteri
Annapolis High School (AHS) – Sunny Deitrick
AHS Students: Fares, Juan, Katie, Marlon, Oscar, Sophie, and Tony

THE PROJECT:

This semester, the ACE students of Annapolis High School developed a plan to rejuvenate Downtown Annapolis – bringing more people to the city, all the while improving pedestrian traffic flow with a bridge connecting Ego Alley and a new Museum with rooftop restaurant. They also came up with a solution to finally resolve the lack of parking which has plagued the city for many decades now. You will find on the second page the results of many sessions of problem solving, brainstorming, and design work. This year was unique in the fact that the students learned an invaluable design tool – Google SketchUp, which they utilized in completing all final designs for their presentations.

Working Sessions:

Throughout the semester, the students heard from a number of different presenters including Phil Leach who discussed business development and Architect Jason Winters who helped the students to understand building spaces and planning. Ted Daniels presented on several topics one of which explained foundations and building structures. These were followed up by hands-on competitions to build both a bridge span that would carry the load of a stapler, and another competition to build the tallest structure out of dry pasta and gum balls. See below.



Anne Arundel Medical Center:

Prior to starting their final Downtown Annapolis group projects, our ACE group visited Anne Arundel Medical Center in Annapolis. Led by D.J. Feather, the students got a first-hand look at a building in the final stages of construction and all the aspects a team must consider, from furniture to signage, in transitioning the tenants into their new space.

The hospital's renovation project is located on a busy hospital campus, surrounded by occupied buildings completely accessible by the public. These conditions mirrored those that the ACE students would encounter with their final project in Downtown Annapolis.

International Masonry Institute (IMI):

With final designs now complete, the ACE group took a trip to the International Masonry Institute's Training Center in Bowie, Maryland. Accompanied by Mentor and Architect, Maria Viteri, and the team of educators at IMI, the students learned about historic restoration and bricklaying.

The students then got to put their new understanding to the test through hands on tasks. At one station, the students practiced mortaring on a mock section of wall undergoing restoration. The "original" mortar had recently been blasted and the students were tasked with re-sealing the wall. See below.



At the second station, learning the tricks of the trade by IMI Trainers, the students tried their hands at laying a few courses of brick. See below.



ACE Mentoring Annapolis High School

May 2011

A Semester in Review

Page 2 of 2

FINAL PRESENTATIONS

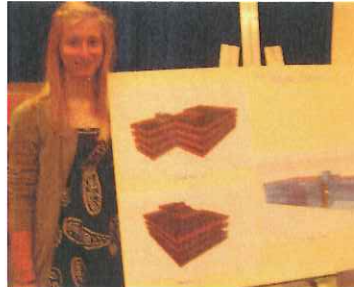
Group #1 –Bridge

Oscar, Marlon, and Fares worked diligently in their design of a new bridge that would span Ego Alley. The bridge would allow foot and bicycle traffic above while permitting smaller boats to pass beneath for prime docking in downtown. The students determined that connecting the two sides would allow for better, more convenient pedestrian flow. The bridge was designed with a Civil War theme, complete with cannon statues that would continue the atmosphere of this historic town. See right.



Group #2 –Parking Structure

Katie took on the task of resolving Downtown Annapolis' issue of insufficient parking. She designed a parking structure that, despite being 4 levels, would tastefully blend into its surroundings. The structure is complete with a historic brick façade, open space levels providing constant views of the Severn River and the surrounding Downtown area, and a green roof with scenic lookouts. See left.



Group #3 –Museum and Restaurant

Tony, Sophie, and Juan designed a Museum with a rooftop restaurant that's sure to draw the crowds to Downtown. The museum maintains the historic theme of this small town, including multiple exhibit areas within. The rooftop restaurant provides great views of the city and the Severn River complete with a wraparound porch. See right.



ACE Annapolis Scholarship Presentations:

Following group presentations, Ted Daniels and Kelly Rosenthal presented an ACE scholarship of \$800 to Annapolis High School graduating senior, Tony Villanueva. This was Tony's second year in the ACE program and he will be attending Anne Arundel Community College in the fall.

Congratulations to Tony and all the AHS students for your hard work this semester!! Sunny Deitrick closed the ACE presentation by giving special thanks to all the ACE Mentors for volunteering their valuable time and energy to help the students learn about the world of Architecture, Construction and Engineering. See you next year!!

Pictured Right:
John Strock of
ACE National,
Ted Daniels,
Tony Villanueva &
Kelly Rosenthal



Pictured Left:
Mentors and
Students



Career Directions for Students in
Architecture, Construction and Engineering

