



What is ACE?

ACE is a unique partnership among industry professionals – architects, interior designers, landscape architects, mechanical, structural, electrical, environmental and civil engineers, construction managers, college and university representatives, and other professionals from related corporations and professional organizations – who work together to attract young people to their professions.

Industry professionals volunteer to become mentors to high school students in order to introduce them to the professions and encourage them to pursue studies and careers in these fields. In return, the industry gets a much-needed boost of new talent. Go to acementor.org for more info.

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Delcastle Technical HS

- Marty Baeriswyl, Delcastle Technical HS

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- Matthew Pirolli, Skanska USA Building
- Joseph Aldeman, University of Delaware
- Marty Baeriswyl, Decastle Technical High School
- Houston Brown, Pennoni Associates, Inc.
- Stephen DiCarlo, DEDC - Delaware Engineering and Design
- Lisa Donlon, VanDemark & Lynch, Inc.
- Harry Trout, Battaglia Electric

More Information

For more information on the Delaware ACE Chapter, please visit: www.acementor.org/1015

Students

- | | | |
|-------------------|---------------------|-----------------------|
| ▪ Jacob Baker | ▪ Moddy Lopez | ▪ Isaiah Stanley |
| ▪ Tyler Collins | ▪ Jesus Moran | ▪ Christian Tabares |
| ▪ Randy Garcilazo | ▪ Orlando Matos | ▪ Asya Traylor |
| ▪ Abigail Glover | ▪ Eddie Mueller | ▪ Jhovany Tovar-Reyes |
| ▪ Jovani Gonzalez | ▪ Alejandro Pantoja | ▪ Daryl White |
| ▪ Scott Grimes | ▪ Jessy Reaume | ▪ Jose Vasquez |
| ▪ Edgar Gutierrez | ▪ Dwayne Riley | ▪ Jesus Zamudio |
| ▪ Kelsea Johnson | ▪ Jose Rosado | |
| | ▪ Jorge Santiago | |



Session Number One - Kickoff

The second year for the Delaware ACE mentoring program began with great enthusiasm at Delcastle High School. Returning seniors and juniors and the new sophomore all looked at this year's exciting program that includes a bridge design & build contest, a riverfront development, design and build project, field trips and many great presentations from industry professionals. After this year's overview, the students participated in the "Tower of Babel" contest in which each team was given a newspaper and roll of tape with the sky (or classroom ceiling) as the limit. The winning team won by a mere half inch at 7' 10-1/2". It was a good start to what will be an exciting year.



Session Number Two

Our second meeting of the season commenced with a presentation on bridges and discussing a bridge building project. The students were introduced to different types of bridges such as: beam, truss, arch and suspension. We reviewed concepts such as tension, compression, and bending and how these concepts are incorporated into the basic types of bridges. The presentation concluded with a brief movie on the Tacoma Narrows bridge failure.



Following our presentation, we introduced the students to the bridge building project developed by one of ACE affiliates. We provided the students with: pasta (lasagna, fettuccine, and ziti); string; rubber bands; popsicle sticks, and glue as potential building materials. The students were divided into groups and began design, keeping in mind: "cost," most original design, highest load carrying capacity and other categories. **Look in the next newsletter to see the results!**





December 2011

Student Profiles



Abigail Glover



Alejandro Pantoja



Jesus Moran



Jovani Gonzalez



Asya Traylor



Christian Tabares



Jose Rosado



Jose Vasquez



Daryl White



Dwayne Riley



Eddie Mueller



Edgar Gutierrez



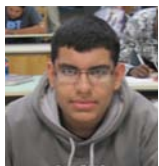
Isaiah Stanley



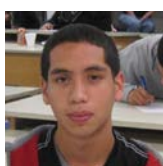
Jacob Baker



Jessy Reaume



Jesus Zamudio



Jhovany Tovar-Reyes



Jorge Santiago



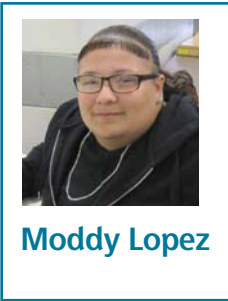
Randy Garcilazo



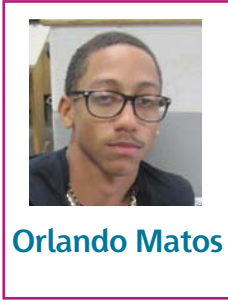
Kelsea Johnson



Student Profiles



Moddy Lopez



Orlando Matos



Scott Grimes



Tyler Collins





ACE Mentor Program Delaware

December 2011

Schedule of Meetings

Meeting	Date	Location	Topic	Fun at Home	Activity/Project Action	Presenter	
1	10/26/2011	Delcastle Tech HS	ACE Overview	Bridge Pictures	Tower of Babel project	Skanska	
2	11/9/2011	Delcastle Tech HS	Structures (Bridges)		Begin bridge design (teams of 3-5)	Pennoni	
3	11/30/2011	Delcastle Tech HS	Civil Engineering		Construct Bridge	V&L	
4	12/7/2011	Delcastle Tech HS	Bridge Contest/ New Project		Test bridges/intro to main project	BPG	
5	12/21/2011	Waterfront Site Visit	Main project site trip / Civil overview	Identify Project	Identify existing site conditions / Pace and sketch site / Identify potential project types	Site Visit	
6	1/4/2012	Delcastle Tech HS	Pennsylvania College of Technology Construction Management		Students present desired project type / Discuss deliverables	PCOT - CM	
7	1/18/2012	Delcastle Tech HS	Architecture		Draw schematics / Mass modeling	ABHA	
8	2/1/2012	Delcastle Tech HS	Structural		Identify and draw structural plan / finish arch	MacIntosh	
9	2/15/2012	Delcastle Tech HS	MEP	WBS	Identify and layout MEP systems / plans	Battaglia	
10	2/29/2012	CCHS	CCHS Field Trip	Interior Pictures	Safety / Site tour / WBS review / scheduling	Skanska	
11	3/14/2012	Delcastle Tech HS	Interior Design		Interior design / finish boards		
12	3/28/2012	Delcastle Tech HS	LEED		Complete rating checklist / key LEED credits		
13	4/11/2012	Delcastle Tech HS	Work Session	PPT	Work Session		
14	4/25/2012	Delcastle Tech HS	Practice Presentations		Practice Presentations		
15	5/9/2012		Final Presentations				