

ACE in Atlanta

ACE Atlanta 2009-2010 Program Newsletter #2 - October 23, 2009



Again, both students and mentors thank **Panola** for their generous Food Sponsorship of the ACE Atlanta 2009-2010 Program!

Announcement Section

- Remember to return your name badges to the boards before you leave each class! We recycle!

Next Class!

10/28: **Civil Engineering (Skyline Engineering) and Landscape Architecture (Ecos Environmental Design)**

Reminder: We will go over the FIELD TRIP PERMISSION FORM for the November 18th visit to Georgia Tech's Construction Program. **The form will be due at the November 4th class.**

ACE Atlanta Gets Electric!

ACE Atlanta is delighted to have welcomed 23 students and 16 mentors to the second ACE class! Thank you to John Cleveland, Phil Wagner and Wayne Binkins of Cleveland Electric for leading this exciting session!

We would like to thank the following students for their participation the second class. An asterisk following their name denotes that they have joined the program!

- Jarius A., North Springs High School
- Gabriel A., Lithonia High School
- Branniton B., Lithonia High School
- Christopher B., Lithonia High School
- Samuel B., Lithonia High School *
- Randi C., Westlake High School *
- Charles C., Our Lady of Mercy High School
- Gerald D., Landmark High School
- Micah D., Landmark High School
- Eddie D., Stephenson High School
- Sherline D., Lithonia High School *
- Stephen D., Lithonia High School
- Cornelius G., Benjamin Mays High School
- Andrew H., Benjamin Mays High School
- Khallid M., Riverdale HS *
- Killian O., Lithonia High School
- Kamau O., Benjamin Mays High School
- Marcus P., Southwest Atlanta Christian Academy
- Briana P., Douglass High School *
- Victor P., Hiram High School
- Gary T., Lithonia High School *
- Darius T., Hiram High School *
- Melvin W., Lithonia High School



Pizza Spiel: "The William Kamkwamba Story" - Video & Discussion

The ACE Atlanta group watched both the Jon Stewart and documentary versions of the William Kamkwamba stories. Mr. Kamkwamba is a school teacher and inventor in Malawi. In 2001, he built a windmill to power appliances in his family home. Amy Norman and Winston Williams led the discussion about the videos - the group agreed that the story is amazing and the "So What" about Kamkwamba's story is that we can overcome huge obstacles with perseverance and the will to make a dream a reality.

To learn more about Mr. Kamkwamba, you can visit http://en.wikipedia.org/wiki/William_Kamkwamba. You can also read about his amazing story in the book "The Boy Who Harnessed the Wind" by Bryan Mealer.

Presentation: "Electrical Engineering & Contracting" - John Cleveland, Cleveland Electric

John Cleveland, President of Cleveland Electric, spoke about electrical engineering and contracting to the group. He gave an overview of electrical engineering vs. electrical contracting and the different career path each speciality requires. He gave some examples of projects his company has completed and an overview of Cleveland Electric and Cleveland Mechanical. He discussed basic electricity (amps vs. volts - why a bird can sit on a power line without getting shocked, etc.) and discussed electrical codes. John also talked about unions vs. non-unions.

Thank you to our Session Mentors!

ACE Atlanta would like to thank the following mentors and guests for their enthusiastic participation!

- Amy Norman, Holder
- Winston Williams, Turner
- Theresa Schroeder, Turner
- Amber Scates, Gilbane
- Drew Gaskins, Gilbane
- Terrance Ward, New South
- Chris Cole, Syska Hennessy
- Karen McHugh, Heery International
- Linda McCoy, IBG Construction Services
- Maxine Coleman, Ecos Environmental Design
- Elijah Cannon, Lithonia High School
- Jonathan Tribo, Holder
- Jimmy Mitchell, Skanska
- Bodunde Omodele, Skanska
- Karim Emami, Skanska
- Curtissa Coleman, General Services Administration

Thank you for the dedicated support of all of our mentors throughout the years.

The success of the ACE Program is due to the consistent and positive involvement of many people willing to share what inspires them about our industry - every day!

He recapped the training and career path of an electrical contractor - new apprentices are paid to work and take one class per week. An apprentice will work for five years before he or she becomes a journeyman. The next step is to become a foreman.

Activity: "Electrical Wiring"

Phil Wagner led an electrical wiring activity. Student groups were given materials and instructed to wire the assembly as shown in a diagram. The activity was extremely challenging. Wayne Binkins, Safety Manager from Cleveland Electric, noted that even an entry level apprentice would have been challenged by this problem. Congratulations and kudos to all of our students for persevering in this challenge! Phil screwed in standard incandescent lightbulbs and performed the measurements/calculations to determine the kilowatt-hours (kwh) used to run the three lightbulbs for 12 hours per day for a year. He then swapped them out for fluorescent bulbs and performed the same calculations. It was determined that the fluorescent bulbs allowed for huge energy savings! Phil spoke about commercial lighting and how quickly technology is improving.

Thank you to John Cleveland, Phil Wagner and Wayne Binkins for being our very special presenters today! Your time and knowledge is greatly appreciated!

