

Baton Rouge Energy Venture Camp 2016

Sparking Ideas in young minds



Student Marcelle Bordellon and her teammates experiment at the Glycol distillation tower in BRCC.



Student Beau Brown and his team working on their wind turbine.

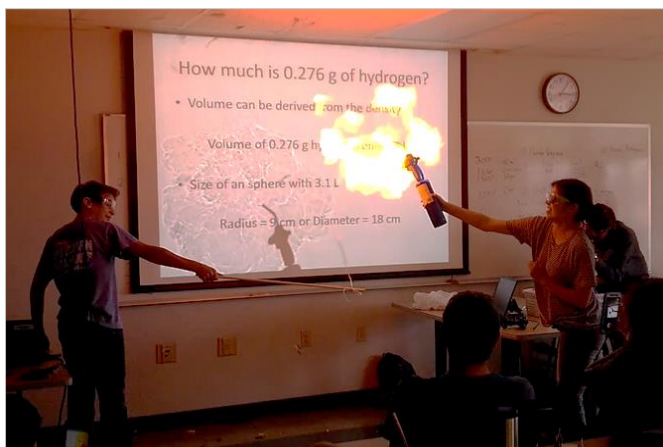
The fourth annual **Shell** Energy Venture Camp was held in **LSU** and **BRCC** campuses between July 18th and July 22nd. This year, twenty nine students from eighteen different schools in the Baton Rouge area and even from Tegucigalpa, Honduras came together to learn about Energy. With the sponsorship of Shell Oil Company, students attended different college level talks and ran different experiments related to Science, Technology, Engineering and Mathematics. Additional to the academic experience, Students also had the opportunity to talk with Shell engineers Corey LeBlanc and Andrew Starkey about the importance of Energy and STEM concepts in their professional environment.

The main goal of the camp was to get students interested in STEM related careers at the technical or college level. There was also time to give the students some insights about the role of advanced education (masters and doctoral) in technological development. Basically, the camp was intended to show the kids that community colleges and universities offer different valuable alternatives of education if they want to pursue a career as highly skilled technicians, engineers or scientists.

The first day, students were divided in teams and learned key concepts on circuits, density, pressure, heat, phase change and the Bernoulli Effect. These key concepts were useful to understand the different activities conducted through the week that had to do aviation, distillation, chemical separation units, energy cogeneration, air conditioning systems, wind and solar energy and petroleum extraction.



Teams building the Spaghetti and marshmallow tower on the first day of the camp.



Fun with Chemistry. Students observing the energy inside Hydrogen molecules



Students touring the PERTT Facility in LSU Petroleum Engineering.

On the last day of activities, the students experienced the different drilling and extraction operations. At the end of the Energy Camp, students presented what they learned during the week to their proud parents. Finally, it was clear that the campers truly understood the importance of efficient use of energy in the different aspects of life, going from toys and domestic applications to big industrial facilities. No doubt it is important to spark these ideas about efficient energy use in these young students that will become the talented technicians, engineers and scientists of the future.

Written by: Daniel Caro – Student assistant



Learning the key concepts for the Energy Camp



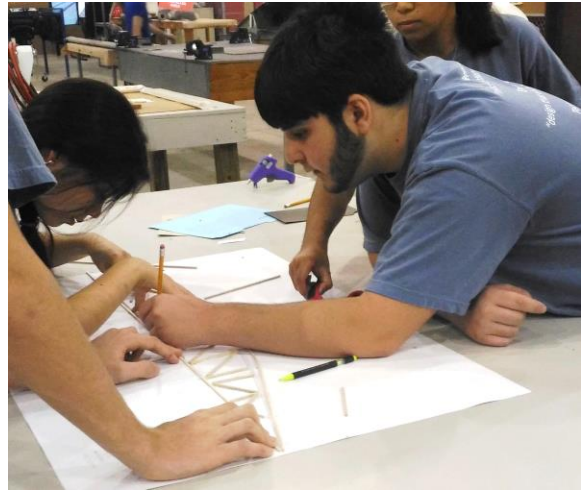
Model Water steam generator. BRCC Process Technology



Students at the BRCC Glycol production and purification Unit



Teams playing the PVC Pipe strategy game. Playing with potential energy



Teams working on model airplane wings at BRCC Hooper road. Understanding aviation.



Teams preparing the mud for the U-Tube and measuring its density. PERTT LSU



Teams testing their model Houses with solar panels.

BR Energy Venture Camp 2016 - Staff

Jeannette Thompson (Camp Educator), Richard Hansen (Camp Educator), Aine Muhumuza (Student Assistant), Daniel Caro (Student Assistant)

Participating schools

Baton Rouge Magnet High School
Catholic High School
Saint Joseph's Academy
Southern University Lab School
Lee High School
Wild Oaks Academy Homeschool
Denham Springs Freshman High School
St. Jude School
Tara High School

Woodlawn High
Mandeville High School
McKinley High School
American School of Tegucigalpa
Baton Rouge Charter Academy
The Dunham School
Northwestern Middle School (NMS)
Lakeshore High School
Homeschool

Acknowledgments

Organization

David Esquivel - SHELL
Jeannette Thompson - Camp Educator
Richard Hansen - Camp Educator

Special Speakers

Linda Shaffer - BRCC Science
Erik Callio - BRCC Aviation
Royal Alexander - Coca- Cola
Chorondalette Moore - BRCC PTEC
Earl Miller - BRCC PTEC
BRCC Students - BRCC PTEC

Peter Davidson - LSU Facilities
Casey Moran - LSU Facilities
Daniel Kuroda - LSU Chemistry
Daniel Caro - LSU CHE
Edgar Berdahl - LSU CCT
Dr. Karsten Thompson - LSU Petroleum Engineering
Randall Huges - LSU Petroleum Engineering
Colton Mall - LSU Petroleum Engineering
Corey LeBlanc - SHELL Engineer
Andrew Starkey - SHELL Engineer