

**Torrance Education Foundation proudly presents:**  
**TUSD CombatBots Competition, CO<sub>2</sub> Car Race & Elegance Contest**  
Held at JH Hull Middle School  
2080 W. 231st St., Torrance 90501  
Friday, June 1, 2018, 5-8:30 pm

Registration for the CO<sub>2</sub> powered car race and the CombatBots Battle will be in the Hull Gym between 4:30-5:00  
Racing will occur from 5-6pm

Continued registration for CombatBots in MPR until 6pm  
Combat Bots competition in MPR between 6-8:30pm

Registration for both events will occur the day of the event at Hull Middle School gym and Multipurpose Room (MPR)

**--Combat Bots Competition--**

- The game will not be a destruction derby!
- The robots will be competing to protect two "balloons" filled with air placed on each robot mounted to the chassis. The object of the competition will be to "pop" the opposition's balloons. Last robot with at least one balloon "unpopped" will be declared the winner of the match. The parameters of the arena of competition will be a 12'x12' area.
- Be sure to come up with a name for your CombatBots.
- The competition will be open to any TUSD students. Each team can have up to five (5) TUSD student members.
- The initial competition will consist of three levels (K-5, 6-8, 9-12) with each level having a representative winner. Each of these winners will compete for the Ultimate Championship Crown of TUSD.
- Each team must have a TUSD teacher to sponsor them.
- Each school will be allowed up to six teams to represent the school in the competition. If a school has more teams, it will be the prerogative of the school to determine the school representatives or it will be first come, first served. If there are not enough teams available to compete in a category, we may start to take more teams from schools, but the advisor from the school will have prerogative to list the order in which the teams are accepted by the competition.
- There will be a verification that the TUSD teacher/sponsor will be responsible for. It will include a checklist which will ask about which system the robot is programmed with.

- Teachers will certify that robots were actually built and programmed by students during school hours, or during an after-school club.
- The Initial Competition between K-5, 6-8, and 9-12 will occur independently. The Ultimate Championship round will begin promptly after the Initial Competitions.
- There will be no “RESETS” if a bot is flipped or “Turtled”
- If a team’s balloon deflates on its own it will be considered to be “Popped”.
- Teams may use VEX robot systems, Lego Mindstorm systems and any other custom-fabricated parts permitted. Robots will be remotely controlled and must meet competition specifications:
  - The robot must fit into a 16”x12”x12” box (this also includes the arm of the robot)
  - No more than 4 motors per CombatBot
  - The robot must stay on the ground
  - The balloon cannot be protected (it must be on the chassis or baseboard)
  - There may not be any weapons or sharp objects on the robot (a piercing device will be distributed at the competition)
- The competing robots for the Combat Bot competition will be inspected for rule compliance at the venue.

**--The CO<sub>2</sub> Race and Elegance Contest--**

- CO<sub>2</sub> Car Racing is open to TUSD Middle School students who have built a race car as per the requirements.
- Each student registering a car must have a TUSD teacher to sponsor their car.
- The teacher will verify that each CO<sub>2</sub> car was actually designed and fabricated by students during school hours or during an after-school club.
- Trophies will be given for the top three racers, the Most Elegant Car, and the Car of Honorable Mention
- The race winner will have her/his name engraved on a perpetual plaque, which their school will display during the upcoming school year.
- CO<sub>2</sub> Car Elegance Contest to follow all races. Elegance contestants may be judged by engineers from these local companies: Raytheon, Northrup Gruman, SpaceX, Boeing, and Honeywell.

**There will be Food Trucks on site to be  
announced at a later time!**

*There will be numerous STEM displays including demonstrations by West and South High’s FIRST Robotics Competition teams, TUSD Lego League teams, and FIRST Tech Challenge teams.*