



PVEF Robotics Roundup 2018



Welcome to ROBOTICS ROUNDUP!

Robotics Roundup is Pleasant Valley Education Foundation's most exciting technology-based program. 2018 will be the 11th year PVEF has provided Camarillo's youth the opportunity to participate in *FIRST* LEGO League.

***FIRST* LEGO League**

PVEF sponsors teams of students from public schools in Camarillo. Each team will be formally registered with *FIRST* LEGO League ("FLL"). This season, individual team members will also be registered with *FIRST*.

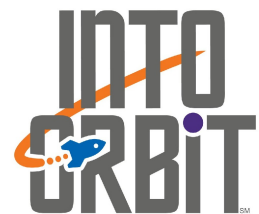
In 1998, *FIRST* (For Inspiration and Recognition of Science and Technology), a non-profit organization, and the LEGO Group joined forces to create *FIRST* LEGO League. Now in its 21st year, FLL boasts over 35,000 teams in over 90 countries. Thanks to thousands of volunteers and hundreds of companies, universities and professional organizations who support the teams, tournaments and operational partners around the world, FLL has grown steadily over the years. Over the past several years the teams in the Los Angeles area grew from a few dozen to nearly 500 last year. The Camarillo teams have been a big part of that!

To find out more visit FLL at <http://www.firstinspires.org/robotics/fll> and be sure to check out the YouTube videos of FLL in action.

The FLL Robotics program is designed to get children excited about science and technology, and teach them valuable employment and life skills. This program is an opportunity for students ages 9-14 to participate in a technology-based after-school activity which includes design, building, testing and programming of autonomous robots to accomplish challenge missions. The activity also includes a project in which the children create an innovative solution to a real-world problem. The project requires research, analysis and presentation. The FLL season culminates in one or more tournaments which give the teams exciting competitive opportunities. *FIRST*® LEGO® League (FLL) is a program that supports children and youngsters in order to introduce them to science and technology in a sporty atmosphere.

2018 Theme: INTO ORBIT

Join our mission into the 30th season of *FIRST*®! Prepare for blast off, break out of your earthly constraints and go INTO ORBIT! The 2018/2019 *FIRST*® LEGO® League season will transport your team into space, where you'll explore, challenge, and innovate in the vast expanse of space.



Teams:

- ◆ Teams may be made up of 4-10 students ages 9 to 14 (as of 1-1-18) Typically these are 4th – 8th Graders.
- ◆ Teams will probably meet once or twice a week. They can start meeting in the summer or as soon as they have a robot kit and software.
- ◆ Each team needs two adults - at least one coach and an assistant coach and/or mentor. Coaches do not need any technical experience. In FLL the children do all the work.

- ◆ Teams will be typically organized by school but coaches may make other arrangements. PVEF will not place children on a team. Teams are not official activities of the school or school district; this is a PVEF activity. Teams may have members from more than one school or home school.
- ◆ Teams will be registered online by coaches or school coordinators starting May 11, 2018, on the PVEF website www.pvef.org. Team registration will close September 7, 2018. Teams are encouraged to register with PVEF prior to August 1 so that they can receive their competition mat and set-up kit and be ready for the season's challenge reveal at the end of August.

Participation fees:

- ◆ In 2018 each student participating in FLL will pay a fee of \$50.00 to PVEF. This fee will be paid to PVEF after the team has been registered by the coach. Each team member will register online at www.pvef.org/events. Payment may be made by credit card or by check or a confidential financial hardship waiver may be requested.
- ◆ Individual registration will stay open until September 14. Any changes to the teams after that date shall be made by contacting PVEF at dpatnoe@pvef.org.
- ◆ Individuals must be registered with PVEF to receive a shirt and to participate in the tournaments.
- ◆ Official registration of individuals with FIRST is required this season. Coaches will be provided details at the Coaches' Workshop.

PVEF will provide:

1. LEGO EV3 MindStorms Robot set The EV3 set will remain property of PVEF but may be used by the school team as long as a team is participating in FLL or until PVEF requests it be returned. New teams will be provided with a new EV3 set or a set from another team. Teams are welcome to use their own EV3 or NXT sets.
2. MindStorms software. Teams continuing from 2017 already have software. New teams will receive access to software with EV3 sets once they are registered.
3. Field setup kit - We expect these to be available in July. Where possible, the field setup kits will be shipped directly to the coaches; otherwise coaches will be notified when the kit is available for pick up.
4. 2018 FLL registration fee (paid directly to FIRST by PVEF for each team)
5. T-shirts for team, plus two adults.
6. Coaches' Workshop, New Coach Programming Basics and Challenge Kickoff Workshop
7. Camarillo Practice and Qualifying Tournaments.

Local teams with members who are not Camarillo public school students are welcome to participate in our workshops and tournaments. Fees will be applicable for the tournaments.

Teams will provide:

1. Coach
2. Mentor and/or Assistant Coach
3. Liaison with PVEF (if other than coach or mentor)
4. Laptop computer(s) with internet access for programming and research

5. Place to meet with space for 4' x 8' playing field, secure storage for robot set, partially completed robot and mission models
6. Table for field mat (may be constructed per instructions on FLL website)
7. Optional additional robots and/or components
8. Tournament expenses (PVEF will cover tournament fees for practice and qualifying tournaments. Teams will be notified regarding Championship.)
9. Optional secondary team sponsor(s) (to help with #6, #7 and #8)
10. Additional volunteers to assist with team and at least one volunteer to help with the tournaments

11. Enthusiasm!

Team T-Shirts

- == Designs and orders to PVEF by September 14. Coaches will be provided more details at the Coaches' Workshop.
- == Extra shirts may be ordered for \$13 each.
- == Target delivery date during the week of October 8.

Information, Forms and Updates

More info:

www.firstlegoleague.org/

<http://mindstorms.lego.com/>

www.pvef.org/fllblog

<http://www.la-fll.org/>

PVEF Robotics Committee

Darren Patnoe dpatnoe@pvef.org

444-8875

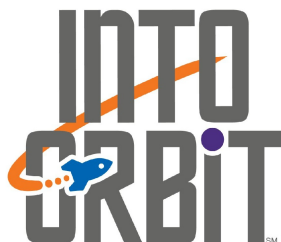
Carey Smith csmith1776@yahoo.com

388-3865

Debbie Hager xhagerx@gmail.com

Bob Taylor btaylor1119@gmail.com

Tracey Anthony tracey.maron-anthony@ah.org



2018 PVEF FLL CALENDAR

PVEF FLL Informational Meeting	Wed., May 9, 2018, 6:30 PM La Mariposa MPR
Team Online Registration @ www.pvef.org	May 11 - September 7, 2018
Individual Online Registration	May 15 - Sept. 14, 2018
Creative Arts Workshop Classes <i>Robotics: LEGO MindStorms</i>	July 9 - 27 @ Los Primeros.
New Coach Programming Basics	Rescheduled dates TBA @ C. Smith residence.
Global Challenge released by FLL PVEF Coaches' Workshop and kit distribution	Wed., August 1, 2018 @9:00 AM PDT Rescheduled date TBA.
Challenge Kickoff Workshop	Sat., August 4. 12:00 PM- 2:00 PM. Tierra Linda School.
Team T-Shirt orders due	September 14, 2018,
Team T-Shirts delivery (target date)	Week of October 8, 2018.
Tournament applications	September-Oct. (details TBA)
Tournament season	October - December
PVEF Camarillo Practice Tournament	Sat., October 27, 2018 Monte Vista M.S.
Mesa Union Practice Tournament	November date tbd Somis
PVEF Camarillo Qualifying Tournament	Sat., Nov. 10, 2018 Monte Vista M.S.
La Reina Qualifying Tournament	Sun., November 18 - Thousand Oaks
Los Angeles Region Championship	December 8/9 @La Canada H.S.
FLL World Festivals	April, 2019 Houston, TX & Detroit, MI