



PVEF Robotics Roundup 2017



Welcome to ROBOTICS ROUNDUP!

Robotics Roundup is Pleasant Valley Education Foundation's most exciting technology-based program. 2017 will be the 10th 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 20th year, FLL boasts over 32,000 teams in over 80 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 a few dozen to 300+ last year. The Camarillo teams have been a big part of that!

To find out more visit FLL at <http://www.firstinspires.org/robotics/fl> 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.

2017 Theme:

HYDRO-DYNAMICS

On your mark, get set, flow!

Drink in the 2017/2018 HYDRO DYNAMICSSM season and learn all about water – how we find, transport, use, or dispose of it. In the 2017/2018 *FIRST*® LEGO® League Challenge, students age 9 to 16* from 80 countries will make a splash with HYDRO DYNAMICS. What might become possible when we understand what happens to our water?



Teams:

- ◆ Teams may be made up of 4-10 students ages 9 to 14 (as of 1-1-17- (typically 4th – 8th Grades)
- ◆ 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 23, 2017, on the PVEF website www.pvef.org . Team registration will close September 9, 2017. 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 2017 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 23. 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 2016 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 or early August. 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. 2017 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 23. Coaches will be provided more details at the Coaches' Workshop.

== Extra shirts may be ordered for \$12 each.

== Target delivery date during the week of October 16.

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

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2017 PVEF FLL CALENDAR

PVEF FLL Informational Meeting	Tues., May 30, 2017, 6:30 PM La Mariposa MPR
Team Online Registration @ www.pvef.org	May 23 - September 9, 2017
Individual Online Registration	May 31 - Sept. 23, 2017
PVEF Coaches' Workshop and kit distribution	Sat., June 24, 2017 9:30 AM - 11:30 AM D. Hager residence.
New Coach Programming Basics	Thursday, July 13 (Part 1) and Thursday, July 20 (Part 2) 7-8:30 PM. C. Smith residence.
Global Challenge released by FLL	Tues., August 29, 2017 9:00 AM PDT
Challenge Kickoff Workshop	Thur., August 31. 6:30-8:00 PM. Location tba.
Team T-Shirt orders due	September 23, 2017
Team T-Shirts delivery (target date)	Week of October 16, 2017
Tournament applications	September-Oct. (details tba)
Tournament season	October - December
PVEF Camarillo Practice Tournament	Sat., November 4, 2017 Monte Vista M.S. (tent.)
Mesa Union Practice Tournament	November date tbd Somis
PVEF Camarillo Qualifying Tournament	Sat., Nov. 18, 2017 Monte Vista M.S. (tent.)
La Reina Qualifying Tournament	Sun., November 19 - Thousand Oaks
Los Angeles Region Championship	December 2/3 or 9/10. Location tba.
FLL World Festivals	April, 2018 Houston, TX & Detroit, MI

