



www.ortop.org * MORE THAN A WEBSITE



*** IT'S A FUN WAY TO GET KIDS INVOLVED IN ENGINEERING**

“Up until now there have been few opportunities to experience what it is like to be part of an engineering team. Participating in FIRST team programs gives students just that opportunity.”**

–Bruce Schafer, Director, Industry Affairs, Oregon University System

****For Inspiration and Recognition of Science and Technology, an international non-profit educational organization - www.usfirst.org**



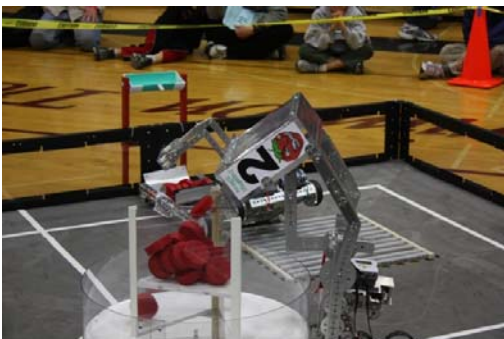
FIRSTLEGO League – FLL Registration open in May 2009
Students 9 – 14 years old /
Season: September – January

Working in teams of 4 to 10, students use inexpensive LEGO® kits to construct a working robot. With the help of coaches and mentors, the team members follow basic engineering principles to create and program their robots to solve the FIRSTLEGO League Challenge and create an annual themed research project. This is a great way to get GIRLS and BOYS interested in science and math, while at the same time they learn teamwork and creative problem solving. This is ORTOP's largest program with 400 teams expected to participate in "Smart Move: Transforming Transportation" in 2009. **More information at: www.ortop.org/fll**

JUNIOR FIRSTLEGO League – Jr.FLL

Smart Move Challenge Team Access Pass opens on July 1, 2009
Students 6 – 9 years old / OMSI Jr.FLL Expo in January

Junior FIRSTLEGO League (Jr.FLL) is geared to children aged 6 to 9 years old and utilizes a modified FIRSTLEGO League (FLL) framework. Teams of up to 6 children and an adult mentor receive a mini challenge, based on the annual FLL research project. Using an open-ended LEGO building set, they will design a model depicting an aspect of this year's "Smart Move" Challenge. Children will spend approximately one month exploring, investigating, designing and building a model made with LEGO bricks. In conjunction, teams create a "Show Me" poster that depicts the teams' experience with drawings and words. Some teams choose to participate in the **OMSI Jr.FLL Expo** to share their work or hold their own Expo. **More information at: www.ortop.org/jfll**



FIRST Tech Challenge - FTC Registration open in May 2009
Students 12 – 18 years old / Season: Sept. - March

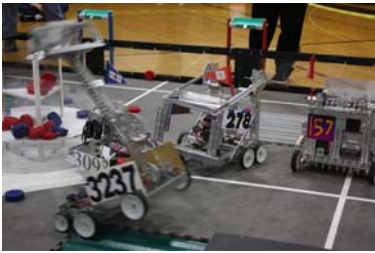
The FIRST Tech Challenge (FTC) program is a mid-level robotics competition designed to provide an opportunity for high-school students, who are too old to qualify for FLL, to participate in a similar program. Like FLL, FTC is an excellent way to experience the power, excitement, and fun of science, technology, engineering, and math and gain insights in the possibility of a technical career. Team members will be involved in the design, implementation, and programming of a Tetrix robot to participate in a well defined challenge in competition and cooperation with robots from other teams. Teams participate in a qualifying and State Championship events in February or March. **More information at: www.ortop.org/ftc**

Title Sponsor **2009 ORTOP Season Sponsors** (as of 6/1/09)



Platinum ►, RadiSys, Rockwell Collins
Silver ► EOU, ESCO, IBM, Oregon University System, Vernier Software & Technology,
Supporting ► Electro Scientific Industries, Portland Community Media

In 2009 over 3,200 students across Oregon will participate.



HOW YOU CAN BE INVOLVED*

- ▶ **Start a team and coach or mentor**
- ▶ **Encourage your child (students) to join a team!**
- ▶ **Free FLL and FTC Workshops available to coaches and mentors**

*Coaches/Mentors are teachers, parents, community organization staff or volunteers.
ORTOP FLL/FTC Scholarships available to help teams.*

- ▶ **Be a judge, referee or volunteer at a tournament !!!**
- ▶ **Be an ORTOP Sponsor**

More info at
www.ortop.org

- ▶ **COACHES/MENTORS**
- ▶ **VOLUNTEERS**
- ▶ **SPONSORS**

ORTOP / **FIRST** Calendar

▶ **Spring** ◀

Free FLL/FTC workshops /Registration begins

▶ **Fall** ◀

Teams begin meeting for Jr.FLL, FLL & FTC

▶ **December** ◀

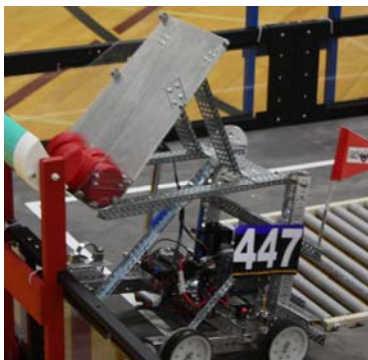
20+- FLL Qualifying tournaments in Oregon

▶ **January** ◀

Intel Oregon *FIRST* LEGO League
Championship Tournament
& Oregon JFLL Expo (January 2009)

▶ **February/March** ◀

ORTOP *FIRST* Tech Challenge
Qualifying and Championship events



What Teachers and Students have to say about the Oregon Robotics Tournament and Outreach Program and FIRST programs

"This is what I kind of wanted to be when I grew up. So this gave me the chance to do it. And you can't really watch engineers do what they do. You have to do it yourself."
---ORTOP Team Member

"The most important thing I learned today was really how to work with my teammates, that everyone's views on something are really important and everyone's ideas are valuable." ---ORTOP Team Member

"The Oregon Robotics Tournament and Outreach Program (ORTOP) is one of the most remarkable programs I've seen in action. This program energizes students by immersing them in a dynamic problem-solving and team-building environment."
---Jeremy Lyon, former Superintendent, Hillsboro School District

"All of us at Intel are thrilled to be part of the exciting Oregon Robotics Tournament and Outreach Program and are honored to ...witness the brilliant work of our talented home-state students. One of the most special aspects of the ORTOP program is its effectiveness in reaching out to a broad and diverse group of kids from all regions of Oregon."

---Nancy Cox, IT Manager, Intel Corporation