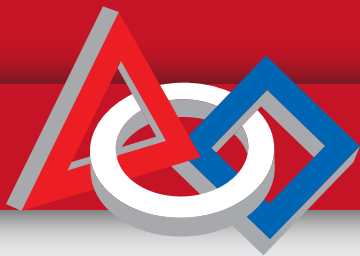




## The **FIRST**® LEGO® League: **HOW IT WORKS**



*“I want to build things nobody else has even thought of yet.”*

Charles Peterson  
FLL team member  
(10 years old)

*“It’s the most unbelievable thing you’ve seen, people yelling and cheering for the robots. This is as much action as you’ll see at any sports event.”*

Tim Jump  
Director  
Advanced Competitive  
Science Program  
Benilde-  
St. Margaret's School

**FIRST**® LEGO® League (FLL®), created through a partnership between **FIRST**® (For Inspiration and Recognition of Science and Technology) and the LEGO Group, inspires future scientists and engineers.

### FLL Children:

- Learn teamwork skills
- Build self-confidence, knowledge, and career and life skills
- Research challenges facing today’s scientists
- Design, build, and program autonomous robots
- Use LEGO MINDSTORMS® technologies
- Engage with their community
- May compete in tournaments and present their solutions to a panel of judges

### How FLL Works:

- Teams of up to 10 children, ages 9 to 16\*  
(grades 4-8)  
\*9 to 14 in the U.S., Canada, and Mexico
- Adult Coaches and Mentors
- Schools, home schools, churches, civic groups, neighborhood groups
- Parents, teachers, community Volunteers
- Corporate Sponsors
- New real-world game challenge each year
- Sports-like tournaments with judges and awards

### What FLL Offers:

- Discovery of the fun in science and technology
- Real-world application of science and math concepts
- Hands-on problem solving
- Programming experience
- Research presentation project
- Adult role models
- Team activities guided by FLL Core Values
- Self-esteem and confidence



### 2013/14 FACTS:

228,400 children worldwide

22,840 teams

80+ countries

NATURE’S FURY<sup>SM</sup>  
Challenge

8-week design, build,  
and research period

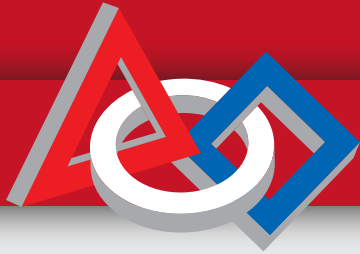
70,000+ Volunteers

1,000+ Sponsors

939 Qualifying Tournaments

124+ Championship Tournaments

1 World Festival



## The **FIRST**® LEGO® League: **2013 CHALLENGE**

*“The top priority of disaster response is to save lives. The better tools we have, the more lives we can save. This Challenge can help develop future emergency response engineers.”*

James Hazlett

Planning, Exercise,  
International Services  
Manager

American Red Cross

*“Through the NATURE’S FURY Challenge, the teams can appreciate the impact of disasters on people in different parts of the world, so they’ll have more empathy and become more inclined to help create better devices to help deal with natural disasters.”*

David Campbell

Founder and Executive  
Director

All Hands Volunteers

*“Kids will learn different ways to prepare, adapt, and respond to a natural disaster. It never hurts to know what comes next.”*

Dave Gallo

Director of Special  
Projects

Woods Hole  
Oceanographic Institution



Can **FIRST**® LEGO® League (**FLL**®) teams help us master natural disasters? In the 2013 **NATURE’S FURY**™ Challenge, more than 228,000 children, ages 9 to 16\*, from over 80 countries, will explore the awe-inspiring storms, quakes, waves, and more that we call natural disasters. Teams will discover what can be done when intense natural events meet the places people live, work, and play.

\*9-14 in the US, Canada, and Mexico

### **NATURE’S FURY** Missions Include:

- Position an evacuation sign
- Clear an airplane’s runway from debris
- Land a cargo plane safely on a runway
- Relocate structures
- Distribute water to people in need
- Deliver supplies



### **FLL teams will:**

- Choose a community to research.
- Learn about the natural event that could cause a natural disaster in that community.
- Research obstacles and then create an innovative solution to help keep people and property safe before, during, or after a natural disaster.
- Share their problem and solution with others.
- Build, test, and program an autonomous robot using LEGO MINDSTORMS® to solve a set of missions on an obstacle course.