



# FIRST®LEGO® LEAGUE OHIO STATE CHAMPIONSHIP



## Team Information Packet

Congratulations on your Invitation to the FLL Ohio State Championship! I would like to wish everyone Good Luck and Good Sportsmanship!

Please read the information below carefully. Spectators and cheering sections are always welcome on Sunday, February 10!

Kathy Levine  
Director, Ohio FLL

**Date:** February 9 & 10, 2013  
**Location:** Ervin J. Nutter Center, Wright State University, Dayton  
3640 Colonel Glenn Highway  
Dayton, OH 45435-0001  
[http://www.nuttercenter.com/directions\\_parking.aspx](http://www.nuttercenter.com/directions_parking.aspx)

### Basic Schedule: Saturday (CLOSED TO THE PUBLIC)

9:00 a.m. – 5:00 p.m. – Team judging (Project, Robot Design and Core Values Judging). Teams will be scheduled for specific judging times.  
5:00 p.m. – 7:00 p.m. – Ambassador Team pizza party and leadership seminar

### Basic Schedule: Sunday (OPEN TO THE PUBLIC)

7:00 a.m. FLL Check-in & Jr.FLL Registration; Pits Open for FLL, Jr.FLL and FTC  
7:00 a.m. FLL Coaches' Meeting – Pit Administration  
7:45 a.m. Parade of Teams – FLL & Jr.FLL & FTC  
**8:00 a.m. Opening Ceremony & Service Celebration**  
**9:00 a.m. Jr.FLL Expo, FLL Practice Round and FTC Scrimmage Begin**  
**10:00 a.m. Official FLL Robot Rounds Begin**  
11:45 a.m. Lunch Break for FLL Robot Rounds  
**12:00 p.m. Jr.FLL Expo “High Fives” Ceremony**  
12:30 p.m. Official FLL Robot Rounds Resume  
2:00 p.m. FTC Scrimmage Concludes  
1:15 p.m. Official FLL Robot Rounds End  
1:30 p.m. FLL Alliance Round Begins  
2:00 p.m. FLL Alliance Round Ends  
2:15 p.m. FLL Medal Ceremony – Parade of Teams  
2:30 p.m. Awards Ceremony  
3:30 p.m. End of Event

**Parking Instructions:** Parking at the Nutter Center is free.

**Team Parking and Team Entrance:** We recommend that teams park in **Lot 9** and enter through **Gate 9** on both days. This way, your team won't have to contend with steps and you can come right into the hallway and into the pit area.

**February 9: NO SPECTATORS PERMITTED – EVENT IS CLOSED TO THE PUBLIC.**

**February 10: EVENT IS FREE AND OPEN TO THE PUBLIC!**

**February 10:** Spectators should come in through Gates 1, 2 & 3 on the Southeast side of the building. If they are coming with team members, they may enter at **Gate 9** and take the elevators up to the 4<sup>th</sup> Floor Concourse Level, where they can get into the arena spectator seating.

### **Rules**

The list of rules and procedures for this year's competitions are provided for you in Attachment 1. They are the same as any other Ohio competition. Please go over them with your team and make sure they understand the procedures to follow while competing.

### **Lunch**

**Coolers will not be permitted at this event. No outside food is permitted.** Eating is permitted in the Pit Area and in spectator seating. Concession stands will be open on the 4<sup>th</sup> floor concourse level and in the Pit Area. Teams may purchase lunch a la carte at the concessions, which will be open on Sunday from 7:00 a.m. until 3:00 p.m.

Expect to pay arena prices for food -- \$3.00 to \$6.00 per item is a general range.

You are free to leave the facility to eat lunch at one of the many restaurants along Colonel Glenn Highway; however, remember to finish your lunch outside the facility, as no outside food or drink is permitted.

### **Registration**

Teams will be given a specific registration time on Saturday, approximately 20 minutes before your team's first judging session. **IMPORTANT:** Your team will **ONLY** be judged on Saturday. Please arrive no earlier than your registration time and plan to leave the facility when your judging is complete. **PARENTS AND OTHER FAMILY MEMBERS MAY NOT STAY IN THE FACILITY DURING JUDGING.** There is nothing for them to see, and the judging area will be too crowded. Please have your parents arrive at your judging end time to transport your team.

Teams can check in and go into the pit on Sunday, February 10 starting at 7:00 a.m.

Competition badges will be given to coaches at team registration on Saturday. Only team members will receive badges. There are 2 adult passes provided for teachers, coaches and mentors per team. The badges allow entry into the Pit and onto the competition floor. **Badges must be worn at all times!**

***Your team will not need to wear their badges during judging on Saturday. We recommend that the coach distribute these badges to the team members on Sunday morning. Remember – NO BADGE = NO TEAM ONLY ACCESS!***

***Pits will be open to the public in the morning for set-up from 7:00 AM until 7:45 AM (prior to Opening Ceremonies) and at 1:45 PM for teardown.***

### **Spectators**

Spectators are welcome and encouraged. There will be nothing for spectators to see on Saturday, but they can come for the day on Sunday, as the table competitions will run from 9:00 a.m. until 2:00 p.m. Opening Ceremonies will start at 7:45 a.m.

Family members will not be permitted in the Pit area, on the competition floor, or in the judging rooms. Family members can leave messages with the Pit Administration; otherwise, plan times to meet (as the team schedule permits or during breaks in the competition action).

We will also have a Jr.FLL Expo running on the concourse level of the arena throughout the morning and an FTC Scrimmage in the McLin Gym area, which is on the 1<sup>st</sup> floor on the arena level. As your schedule permits, we encourage your team to enjoy these events as well.

### **Pit Area Necessities**

You will have a table (3' by 6') and an electrical outlet in the pit area to use as a base of operations. We hope to provide you with a little more space and to have 6 to 8 chairs available per team (feel free to redistribute those chairs as needed among the teams that will be sharing your pit "pod." You must bring your own computer, and you may bring a surge protector if you would like more than one outlet. There will be technical-savvy people on-hand to assist you.

**Pit Pods:** There will be six pit areas that we fondly call "Pit Pods." Each area is named for a famous inventor/scientist/engineer and includes six teams and one practice table. These six teams will share this practice table and are free to work out their own system for reserving time on the table. Remember – each team is permitted 10 minutes practice time on the table every hour. Please be gracious professionals and take only those ten minutes per hour. You can switch out times with other teams, determine your own method for scheduling practice time, etc. – remember, whatever you decide, you must all agree.

The Pit this year will be on the main arena floor. Parents may sit in the arena seating above the pit area and look down, but they may not enter the arena floor.

We will be projecting the robot scores into the pit area, and we will also project announcements as needed. If you have any problems or concerns in the pit, we would ask that you go to the Pit Administration table. You will find program books, tournament schedules, call-back schedules, first-aid kit (for the small stuff – like band aids, etc.). The Pit Administrator will have a public address system and can make announcements as needed.

**It is advisable** to bring a box in which to carry your robot onto the competition floor. Many times robots will fall apart as they are being carried to the playing field. If you drop your robot on the way to the playing field, your round will not be rescheduled.

**If you are using the RCX robot**, you must use a box to block your IR signals when you download programs to your robot. IR signals can and do bounce all over and we want to make sure that your program does not end up in someone else's robot!

You may bring a banner or some other means of identification for your team to hang up in front of your pit table.

**No personal team mats and fields are permitted. Please use the practice table in your pit for robot practice.**

There will be Pit Area guards to make sure that only team members with competition badges are allowed to enter. They are not, however, responsible for lost or stolen items. Never leave expensive equipment unattended!

**Coaches: Please be advised that only team members may handle, repair, etc. the robot and its manipulators. No coach/mentor may do any programming. If your team has technical difficulties where adult intervention may be necessary, please inform Pit Administration. They will page a technically savvy person who can either help troubleshoot a technical problem or be that third party witness that adults on the team are not "cheating." Teams whose coaches do work on the robot or its programs risk disqualification.**

#### **Cameras**

**Cameras will be permitted. Thorough testing has proven that flash photography does not disrupt the programs in the robot.**

#### **Judging, Saturday, February 9:**

The judging will be held in a 90 minute block. Your registration time will be 20 minutes before your first judging session. This will give you plenty of time to turn in all of your paperwork, pick up your team tournament packets and T-shirts (if you ordered them). A team escort will meet you at team registration and escort you to your first stop – team pictures. Please follow the escort's instructions. He/she is there to assist you and to make sure that you get to each of your judging sessions on time.

**Please instruct your parents that they will need to leave the facility during your judging.** There are restaurants and a mall area within a mile of the facility if you have parents that need a place to be for an hour or so.

***THERE WILL BE NO CONCESSIONS, FOOD OR DRINK AVAILABLE FOR PURCHASE DURING JUDGING.*** We will allow teams to bring bottled water with them. Two hours is a long time to be on-site, and even though we do have water fountains in the building, you may still carry the bottled water. Please, no pop or food.

Your team will have 10 minutes with each set of judges and 10 minutes between each judging session. A team escort will assist you, as the judging areas are spread out over several floors in the Nutter Center.

Your team will meet with three teams of judges in the following order: Project, Robot Design and Core Values. If you are an Ambassador Finalist team, you will meet with your Ambassador Judges following your Core Values judging session.

### **Judging**

Only student team members and team coaches (up to two) will be allowed into the judging rooms. One team coach will be permitted to videotape the judging session; however, that adult should remain in designated areas – nobody from the team should stand behind the judges. Coaches should be quiet observers of the judging process and refrain from influencing the session in any way. A screen and a projector are available for you to use in the project judging areas. You will need to bring your own computer, if you are using a presentation. Judging scheduling is tight. You must be on time or forfeit the judging sessions.

***All cell phones (for team members and coaches) must be off during the judging sessions.***

### **Robot Judging**

In the Robot Judging area, your team will find a competition table, mat and field set. The team can use the Senior Solutions field for explanation and/or demonstration purposes. During this session, your team will spend ten minutes with the judges. The team should be prepared to present your **Robot Design Executive Summary** as outlined in the Robot Design Executive Summary document, and should last no longer than four (4) minutes, to allow for the judges to ask your team questions. For specific guidelines about the Robot Design Executive Summary, visit:

[http://edoutreach.wpafb.af.mil/Robotics/media/2012/rd\\_executive\\_summay.pdf](http://edoutreach.wpafb.af.mil/Robotics/media/2012/rd_executive_summay.pdf)

***You must bring your robot, its manipulators and a diagram or a printout of your programming to Robot Judging!***

### **Project Judging**

Your team will spend ten minutes with the judges. Your team will have five minutes to deliver your project presentation to the judges – this includes set-up time; the last five minutes are reserved for the judges to ask questions. This presentation should be rehearsed and polished. The judges will wait until your presentation is over to ask questions. Please stick to the five minute time limit! Props and costumes are permitted, and judges will look for creativity in the presentation style.

Remember, to be eligible for a project award, your team must have done research on the topic, identified an innovative solution to the defined and researched problem, and shared your research and solution with others beyond your team.

### **Core Values Judging**

Your team will spend ten minutes with the judges. During the first five minutes, your team will be given a surprise teamwork activity to complete in front of the judges. The

judges will be looking for evidence of your team dynamics: How well does your team communicate? Do they respect each other? Do they incorporate each other's ideas into the solution? Does your team have leaders? Do they incorporate elements of Gracious Professionalism™ in the way they communicate with each other? Are they able to solve the problem and complete the task?

After the activity, your team will spend no more than two (2) minutes sharing their Core Values Poster with the judges. For specific Core Values Poster requirements, visit: [http://edoutreach.wpafb.af.mil/Robotics/media/2012/cv\\_poster\\_ohio.pdf](http://edoutreach.wpafb.af.mil/Robotics/media/2012/cv_poster_ohio.pdf)

The final three (3) minutes are reserved for the judges to ask the team questions about the activity, the poster and/or the season.

**For information about all judged areas, reference the U.S. FIRST website at: <http://firstlegoleague.org/event/judging>**

**Robot Design Executive Summary and the Core Values Poster requirements can only be found at the links provided above, on the Ohio FLL website.**

### **The Judges**

Please advise your team members that the judges are here to help, not criticize. This is your chance to shine and show others what you know! The judges will be asking questions, and they really want to hear what the team members have to say. *They want you to impress them! They want the teams to do well! Do not be afraid of them! Just talk to them. And have fun!*

**Pre-Competition Paperwork: We will need a completed consent form for both FLL and WSU for all students and adults on your team. Please bring a copy of all of them to the competition. We will collect them. No team member will be permitted to compete without completed release forms!**

**NOTE: Your team members WILL be photographed!!** (Please refer to the FLL Consent form).

If a parent prefers that a child not be photographed, he/she must either tell the child to step out of camera range when a picture is being taken or he/she can choose not to bring the child to the competition. ***By signing the FLL form and participating in the competition, you accept the fact that your child will be photographed and the image can be used to promote the FLL program!***

### **Dress**

Dress for all teams is casual. This is a sporting event. Team members will be very busy and have to do a lot of running around. We want everyone to have fun and be comfortable.

## Competition Day Checklist

- ❑ Fresh Batteries/Spare batteries/NXT Rechargeable battery charger
- ❑ Computer/ USB cable for NXT program downloads
- ❑ Box for your robot
- ❑ Box for downloading programs (RCX)
- ❑ Box to keep team items under your table (coats, games, etc.)
- ❑ **Team Information Sheet (4 copies) (Due at team registration on Feb. 9 – no email submissions will be accepted this year)**
- ❑ **Hold-Harmless/Photo release forms (for each team member, mentor and coach) for both FLL and WSU (Due at team registration on Feb. 9 – no email submissions will be accepted this year)**
- ❑ Project Judging Presentation Materials
- ❑ Core Values Poster
- ❑ Graphics demonstrating programming strategy for Robot Judging.

## Coaches' Meeting

There will be a Coaches' Meeting at **7:00 a.m. on Sunday, February 10 at the Pit Administration Table**, which will begin right as the pits open for the day. Make sure you have an adult on hand who can get your team settled into the pit, as at least one coach from each team will be required to attend this meeting. At this time, the schedule and event procedures will be discussed, and you will have the opportunity to ask questions of the Lead Referee.

## Team Alliance Round

We are excited to be able to offer a Team Alliance Round to be held after the final, official robot round of the competition. Your team will be assigned to an alliance of three teams, and you will be asked to use your three robots to compete in one robot match. The alliance that gets the most points in this single match will earn the optional Alliance Award during the Awards Ceremony. Please visit the Ohio FLL championship web page for the details and rules of the alliance round. This information should be posted by January 25, along with the alliance teams! Your alliance team members will share your pit with you, so you will have a time throughout the day on Sunday to work out your strategy!

## Team Size

***Remember, the maximum number of children on your team is 10! All members should be between the ages of 9 and 14 (must have been no older than 14 years old as of January 1, 2012).*** Each team should try to have at least three team members present at the competition.

## FLL Ohio State Tournament T-Shirts

FLL Ohio State Championship shirts are \$15.00 each and available by preorder (\$17 per shirt for sizes 2XL and larger). Please submit one order per team. Payment is due at the time you pick up your shirt order, which will be during team registration on Saturday. If you pay by check, make the check payable to the **Ohio Educational Outreach Foundation**. Cash works, too, but please bring exact change. There will be

a limited number of extra shirts available for sale during the event on a first-come, first-served basis.

### **CANCELATION/INCLEMENT WEATHER POLICY**

The FLL Ohio State Championship will only be canceled or delayed due to causes and conditions beyond the tournament organizers' control, including, but not limited to, Acts of God, government restrictions and/or any other cause beyond the tournament organizers' control. In the event of inclement weather, the tournament will only be canceled if Greene County is under a Level 3 Snow Emergency. Please refer to local news and radio for current county advisories. If the event must be canceled, it will not be rescheduled, and advancement to the FLL Open Championship – North America will be determined by lottery.

If it appears as though bad weather is imminent for the day of the event, I will give you additional contact information.

### **Awards**

The following awards will be given at the FLL Ohio State Championship:

- **Champion's Award:** 1<sup>st</sup> Place, 2<sup>nd</sup> Place, 3<sup>rd</sup> Place
- **FLL Ohio Ambassador Award**
- **Robot Performance Award:** 1<sup>st</sup> Place, 2<sup>nd</sup> Place
- **Mechanical Design Award**
- **Programming Award**
- **Strategy & Innovation Award**
- **Teamwork Award**
- **Inspiration Award**
- **Gracious Professionalism Award**
- **Research Award**
- **Innovative Solution Award**
- **Presentation Award**
- **Judges Award (3)**
- **Team Alliance Award**
- **Dr. Martin Luther King "Dream" Award:** This is awarded to the team that best exemplifies Dr. Martin Luther King's vision of a future where people are judged on the content of their character regardless of race, gender, religion, background or other considerations. The local award recognizes a team's effort to be inclusive and incorporate diversity into their team.
- **Founder's Award:** This local award is given to the team that best honors the mission of WPAFB Educational Outreach, and through community outreach and inspirational spirit best encourages others to explore math, science and engineering.
- **Coopertition Award:** This local award is given to the team that best honors the *FIRST* value of Coopertition – you do your best to help others to compete at their best, but you are still fierce competitors yourselves! You compete with honor, respect and integrity and work to make others feel valued and respected in the process.
- **EPIC (Engineer, Play, Inspire, Create) Award:** This local award goes to the team whose energy and excitement are contagious and inspirational.

- **Adult Coach/Mentor Award**
- **Young Adult Mentor Award**
- **Outstanding Volunteer Award**

### **Advancement from the Ohio State Championship**

**North American Open Championship:** The team that wins 1<sup>st</sup> place in the Champion's Award category will receive the invitation to compete at the FLL Open Championship – North America, which will be held at LEGOLAND in Carlsbad, California on May 17-19, 2013.

**Open European Championship:** Ohio has an invitation to attend the 2013 Open European Championship, which will be held at the world's largest computer museum, the Heinz Nixdorf MuseumsForum in Paderborn, Germany on May 7 – 10. Cost to attend this tournament (fee does not include travel or housing expenses) is \$332.17 per participant (249,00 EUR) and includes the tournament, food, beverages, the Welcome Party and a second evening event. Due to the level of coordination and expense for teams to be able to attend this event, Ohio FLL will select an Ohio championship team from a pool of teams that have the infrastructure, financial ability and interest to travel to Germany for this incredible opportunity. Contact Kathy Levine at [kathleen.levine@wpafb.af.mil](mailto:kathleen.levine@wpafb.af.mil), prior to the start of the Ohio State Championship tournament if you would like your team to be considered for selection. You can find information about this event at:

<http://fllopen.de/>

**World Festival:** This year, the Ohio State Championship does not have an invitation to attend the FLL World Festival in St. Louis in April; however, LEGO Care for Education awarded Ohio FLL a grant to grow teams in Northwest Ohio. One of those teams, 3387 Lego Cyborgs, was awarded this advancement at the Toledo Technology Academy Regional tournament. We wish this OSU 4H Youth Scholars team from Toledo the very best when they represent Northwest Ohio and the entire state at this premiere FIRST Championship tournament!

**Overall Ohio FLL Ambassador Award:** The Ohio FLL Ambassador Award winner will receive a team registration and robot kit for the upcoming season for FLL or FTC, if this team is ready to move to the next program level.

### **The National Museum of the United States Air Force**

The National Museum of the United States Air Force (formally known as The Air Force Museum) will be open all day on Saturday and Sunday, from 9:00 a.m. until 5:00 p.m. Although in the past the museum had special evening hours for the FLL teams, this year the normal operating hours will be observed, since judging presentations will only take about two hours out of your day.

### **For questions about anything in this packet, please contact:**

Kathy Levine  
 (937) 938-4862  
[Kathleen.levine@wpafb.af.mil](mailto:Kathleen.levine@wpafb.af.mil)

## Competition Rules and Procedures

Your team is responsible for knowing and understanding the Senior Solutions robot game. All of the game documents can be found on the FLL website at:

<http://firstlegoleague.org/challenge/2012seniorsolutions>

You are required to know the following for the robot competition: Field Setup, Rules, Missions, and Game Rulings.

(For the Project Judging, you can find the complete project requirements, including “Frequently Asked Questions,” at the above link as well).

### Staging/Tournament Play:

- Teams will be called to competition play based upon the times in the tournament schedule.
- Teams will play three official rounds to determine the placing in the final scores. Your score will be the **BEST** of the three official rounds. Ties will be broken by comparing the next best round scores.
- Teams must be in the bullpen at least ten minutes before their scheduled round begins. Teams who are not on time will forfeit the round.
- Note that traffic is one way from the pit area to the bullpen and the bullpen to the pit area. Make sure your team obeys the one way rules.
- The referee will have a score sheet for your team.
- Each team will have a total of five (5) minutes to spend on the competition floor. Within that five (5) minutes, you must complete a two and a half (2.5) minute round. The extra time is used for set-up and positioning the robot. The round will begin on a signal from the referee. Your team is guaranteed a one minute setup time before the start of your match.
- **Only TWO team members are allowed to be directly on the playing field while the robot is running. Other team members must stand behind the line to cheer the team. Substitutions can be made at any time, but at no time can there be more than two robot handlers on the playing field, unless there is a robot emergency. By this, we mean that the robot is damaged and is incapable of performing any mission.**
- ▪ **After the match is over, the playing field is scored by the referees. Two team members will go over the score sheet with the referee so that both parties agree with the scoring. The team members will then exit the competition floor and wait off to the side to see their scores.**
- Your team, with the exception of the two team members who will go over the scoring with the referee, must exit the competition floor *promptly* at the end of the five (5) minutes. All referee decisions are final.
- After the scores are displayed, the scorekeeper will hold onto the score sheets.

- **Remote control use to change robot programs is not permitted. In fact, remote controls are not allowed anywhere! If you are using the NXT robot, Bluetooth may not be used. Your team could be disqualified if you are found with a remote control anywhere or if your Bluetooth is enabled in the competition area!**

**In addition to the above rules, all rules set forth by the *FIRST*® *LEGO*® League will be enacted.**