



FLL 2017-2018 SEASON

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**WELCOME TO
THE KICKOFF!**

CONTACT INFORMATION

- Shannon Page
 - FLL Coordinator at the Perot Museum of Nature and Science
 - Shannon.Page@PerotMuseum.org
 - (214) 759-5929

AGENDA

- FLL Partnerships
- Teams
- Competitions
- Season
- Resources



FLL PARTNERSHIPS

WHO'S DOING WHAT

- *FIRST*

WHO'S DOING WHAT

- *FIRST*
- LEGO

WHO'S DOING WHAT

- *FIRST*
- LEGO
- Perot Museum of Nature and Science

WHO'S DOING WHAT

- *FIRST*
- LEGO
- Perot Museum of Nature and Science
- Head Referee – Joe Varnell

WHO'S DOING WHAT

- *FIRST*
- LEGO
- Perot Museum of Nature and Science
- Head Referee – Joe Varnell
- Regional Judge Advisor – Michael Calahan

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TEAMS

WHAT IT TAKES TO PARTICIPATE

- How do I form a team?

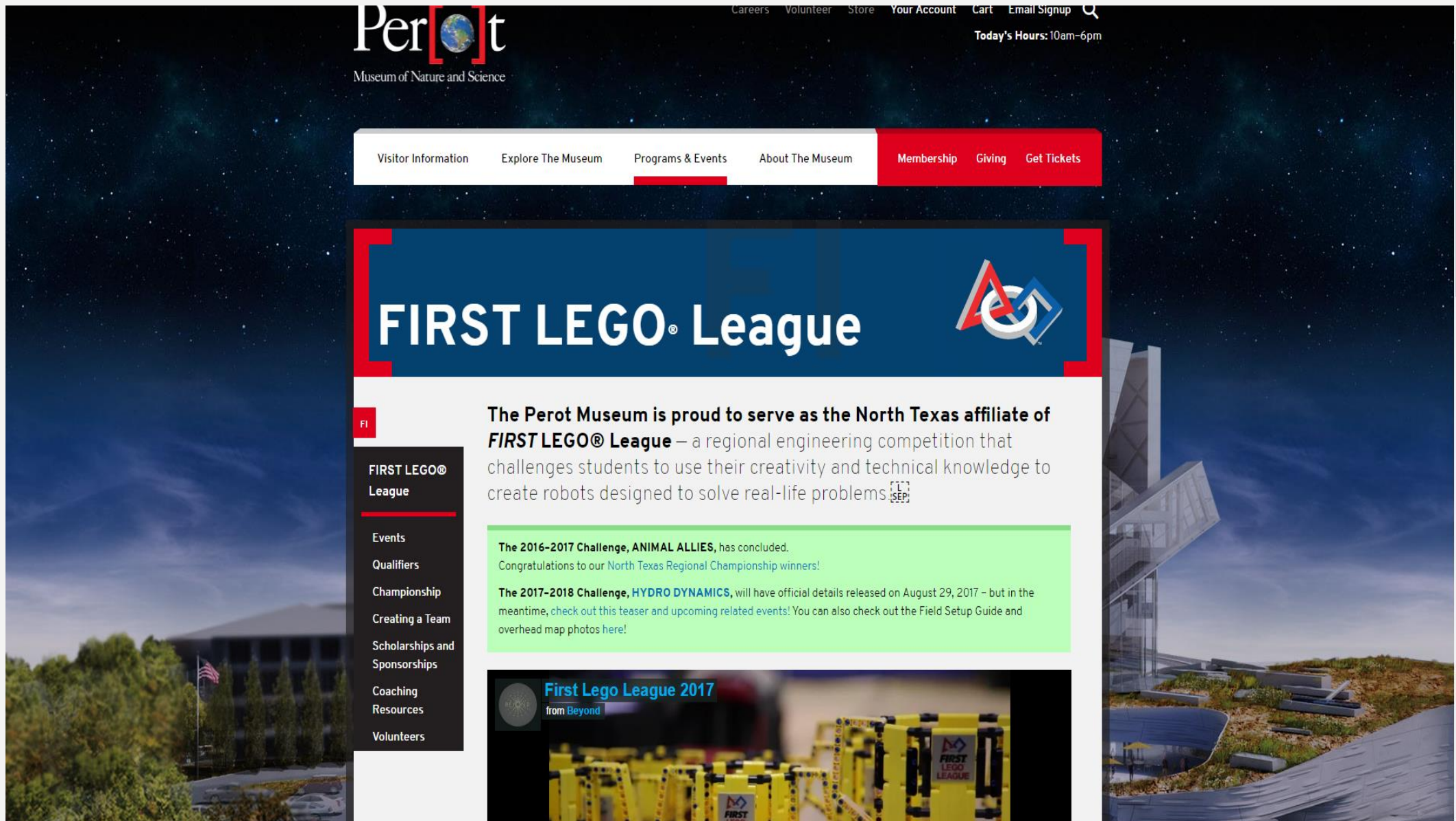
WHAT IT TAKES TO PARTICIPATE

- How do I form a team?
- What does the team need?

WHAT IT TAKES TO PARTICIPATE

- How do I form a team?
- What does the team need?
- What do the coaches and mentors do?

FLL MINI SITE – PEROTMUSEUM.ORG/FLL



The screenshot shows the website for the Perot Museum of Nature and Science. The header includes the museum's name and logo, with navigation links for Careers, Volunteer, Store, Your Account, Cart, and Email Signup. A search icon and today's hours (10am-6pm) are also present. A main navigation bar highlights 'Programs & Events' among other options like Visitor Information, Explore The Museum, About The Museum, Membership, Giving, and Get Tickets. The featured section is for the FIRST LEGO League, with a large blue banner and the league's logo. Below the banner, a sidebar on the left lists various resources for the league, including Events, Qualifiers, Championship, Creating a Team, Scholarships and Sponsorships, Coaching Resources, and Volunteers. The main content area contains text announcing the museum's role as the North Texas affiliate of the league, followed by two green boxes providing updates on the 2016-2017 challenge (Animal Allies) and the upcoming 2017-2018 challenge (Hydro Dynamics). At the bottom, there is a video player for 'First Lego League 2017 from Beyond' showing yellow LEGO robots.

Perot
Museum of Nature and Science

Careers Volunteer Store Your Account Cart Email Signup Q
Today's Hours: 10am-6pm

Visitor Information Explore The Museum **Programs & Events** About The Museum Membership Giving Get Tickets

FIRST LEGO® League

FI

FIRST LEGO® League

- Events
- Qualifiers
- Championship
- Creating a Team
- Scholarships and Sponsorships
- Coaching Resources
- Volunteers

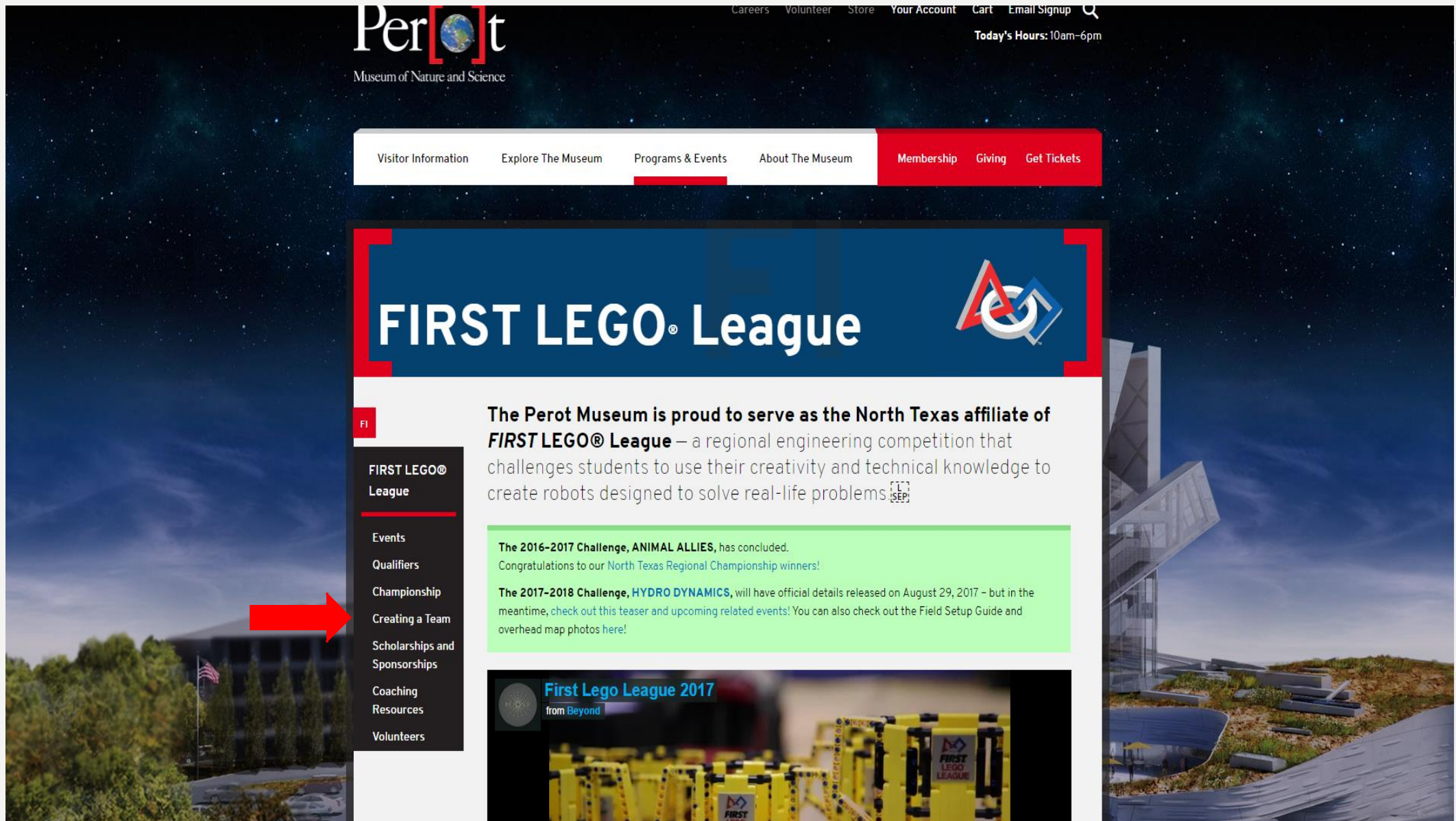
The Perot Museum is proud to serve as the North Texas affiliate of *FIRST LEGO® League* – a regional engineering competition that challenges students to use their creativity and technical knowledge to create robots designed to solve real-life problems.

The 2016-2017 Challenge, ANIMAL ALLIES, has concluded. Congratulations to our [North Texas Regional Championship winners!](#)

The 2017-2018 Challenge, HYDRO DYNAMICS, will have official details released on August 29, 2017 – but in the meantime, [check out this teaser and upcoming related events!](#) You can also check out the [Field Setup Guide](#) and [overhead map photos here!](#)

First Lego League 2017
from Beyond

FLL MINI SITE – CREATING A TEAM



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FIRST LEGO® League

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Events
Qualifiers
Championship
Creating a Team
Scholarships and Sponsorships
Coaching
Resources
Volunteers


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First Lego League 2017
from [Beyond](#)

FLL MINI SITE – CREATING A TEAM



Careers Volunteer Store Your Account Cart Email Signup 
Today's Hours: 10am–6pm

Visitor Information Explore The Museum **Programs & Events** About The Museum Membership Giving Get Tickets



FIRST LEGO® League

FI

Creating a Team

FIRST LEGO® League

Events

Qualifiers

Championship

Creating a Team

Scholarships and Sponsorships


Coaching Resources

Volunteers

If you're interested in forming a FLL team, here's how it works:

FLL teams consist of anywhere from 2 to 10 members, ages 9-14. While most teams are founded by schools, many are also independently run through Boy and Girl Scout troops, science and technology clubs, homeschool groups, other outreach organizations, or just groups of friends!

The Perot Museum of Nature and Science is the Operational Partner for FLL in North Texas. We oversee official FLL events in the region and work to spread the word of FLL. We cannot, however, assist with team creation or management. We recommend the following course of action for anyone interested in getting involved with an FLL team:



[GETTING INVOLVED WITH A TEAM]

FLL MINI SITE – CREATING A TEAM

[GETTING INVOLVED WITH A TEAM]

1. Contact the child's school and see if they already have an FLL team that has an available spot.
2. If the child's school does not have a team, encourage them to start one.
3. Offer to become a team coach. There are great resources for coaches [here](#).
4. Need help locating an FLL team in your area? Try *FIRST's* team-matching system, TeamUp.

[HOW TO REGISTER]

Once you have a group of students and a coach, you're ready to begin the season – all you need to do is register!

To register to compete in official FLL Tournaments, you must first register with *FIRST* by visiting the [FIRST LEGO® League website](#). Registration takes place each year between May and September.

1. Visit the [FIRST LEGO® League website](#) to start a team.
2. Read all of the instructions carefully and click on "Register" in the gray box.
3. Follow the instructions to create an account and begin the registration process. Please note, as of this year, all teams will need to list two coaches/mentors/adult contacts who must pass a background check before registration can be confirmed.
4. Once both adults have passed the background check, *FIRST* will send you instructions on how to order your Challenge Set.

Costs or required items

- \$225 per team: fee to register through *FIRST*. Registration through *FIRST* is required to participate in any official local, national, or international events, which may have additional costs.
- \$75 + shipping: cost of Field Set-up Kits. These consist of the Lego pieces and field mat that the robots will use in the Robot Game and Robot Design judged session.
- \$~250-\$1000+: cost of NXT or EV3 robots, depending on source and "bells and whistles." Either robot can be used for competitions
- [Part pricing list](#)



A decorative graphic on the left side of the image consisting of three parallel, wavy vertical lines. The outermost line is white, the middle line is a light blue color, and the innermost line is white. These lines create a stylized, organic shape that resembles a coastline or a series of waves.

FLL SEASON

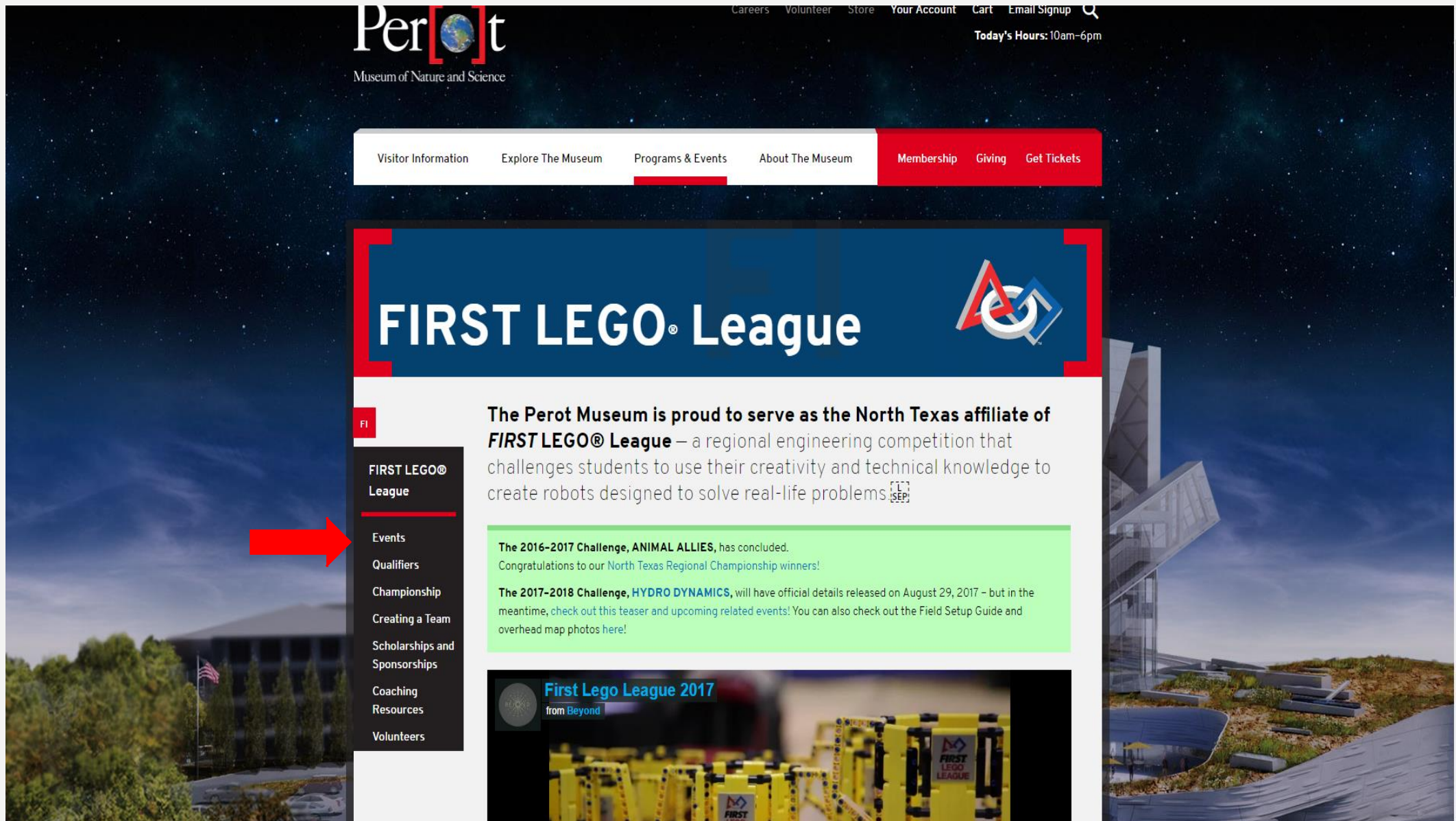
WHERE ARE WE GOING?

- Clinics

WHERE ARE WE GOING?

- Clinics
- Scrimmages

FLL MINI SITE – EVENTS



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Events

Qualifiers

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Scholarships and Sponsorships


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Volunteers

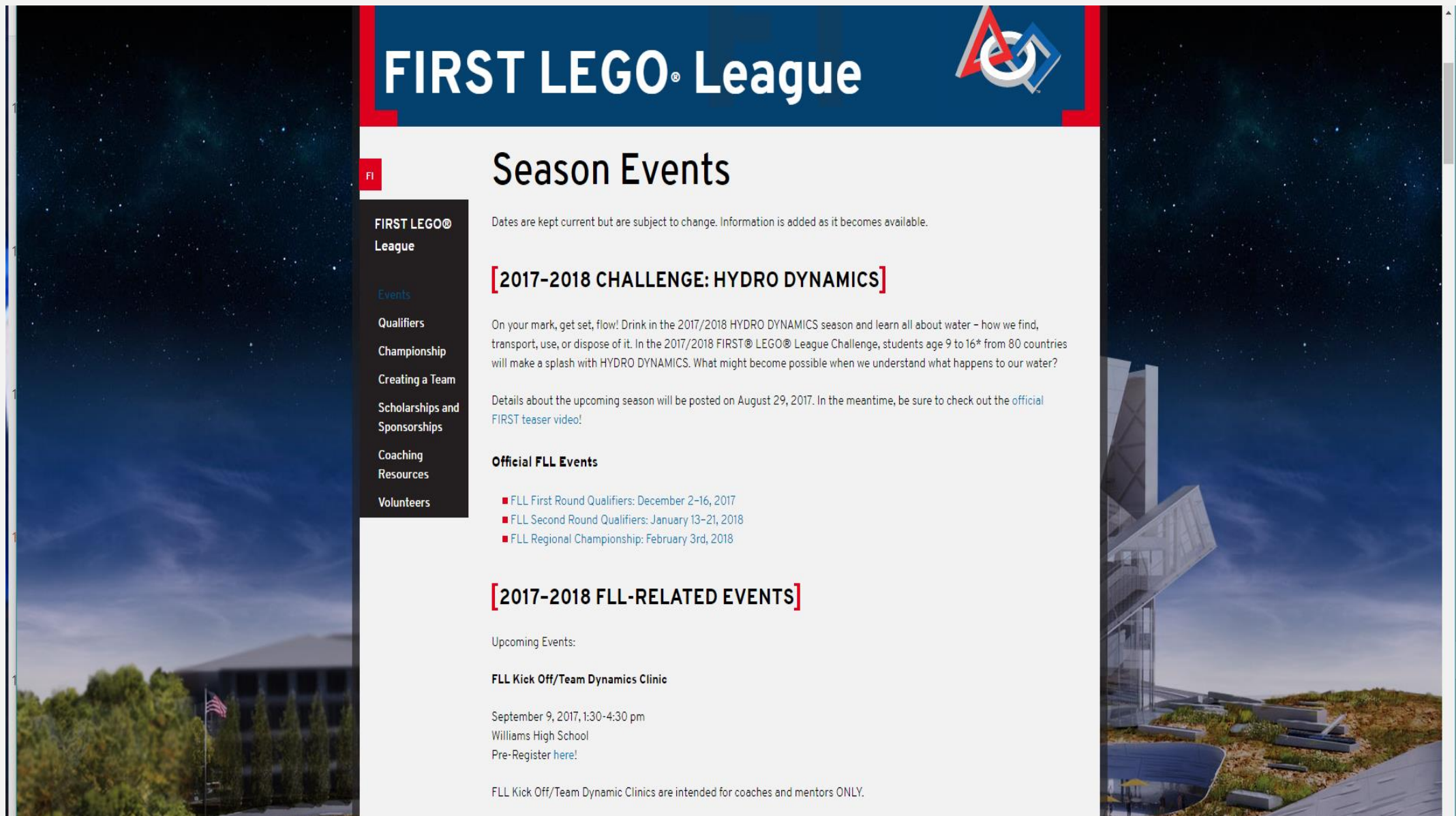
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First Lego League 2017
from [Beyond](#)



FLL MINI SITE – EVENTS



FIRST LEGO® League



FLL

FIRST LEGO® League

Events

Qualifiers

Championship

Creating a Team

Scholarships and Sponsorships

Coaching Resources

Volunteers

Season Events

Dates are kept current but are subject to change. Information is added as it becomes available.

[2017-2018 CHALLENGE: HYDRO DYNAMICS]

On your mark, get set, flow! Drink in the 2017/2018 HYDRO DYNAMICS 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?

Details about the upcoming season will be posted on August 29, 2017. In the meantime, be sure to check out the [official FIRST teaser video!](#)

Official FLL Events

- FLL First Round Qualifiers: December 2-16, 2017
- FLL Second Round Qualifiers: January 13-21, 2018
- FLL Regional Championship: February 3rd, 2018

[2017-2018 FLL-RELATED EVENTS]

Upcoming Events:

FLL Kick Off/Team Dynamics Clinic

September 9, 2017, 1:30-4:30 pm
Williams High School
Pre-Register [here!](#)

FLL Kick Off/Team Dynamic Clinics are intended for coaches and mentors ONLY.

FLL MINI SITE – EVENTS

[2017-2018 FLL-RELATED UPCOMING EVENTS]

FLL Kick Off/Team Dynamics Clinics

- September 16, 2017, 1-5 pm
Fellowship Christian Academy
Pre-Register [here](#)
- September 16, 2017, 10am-12:30pm
Benbrook Public Library
Pre-Register [here](#).

FLL Kick Off/Team Dynamic Clinics are intended for **coaches and mentors ONLY**.

This event is **free**!

What are the Kickoffs?

- These are introductory meetings/presentations where we go over many things you'll need to know about participating in FLL this season.
- There are at least two Kickoff sessions each season. Each coach/mentor only needs to go to one, and it doesn't matter which one. Rookie and veteran coaches are welcome at both events.
- These are HIGHLY RECOMMENDED, especially for new coaches/mentors.
- We will go over exactly how the events and competitions run (rules, policies, what to expect), and there will be Robot Game tables and fields set up with experts there to explain the Robot Game missions and rules.
- It's a great opportunity to meet the North Texas FLL community, get your questions answered in person, and figure out exactly what will be happening for us this season.

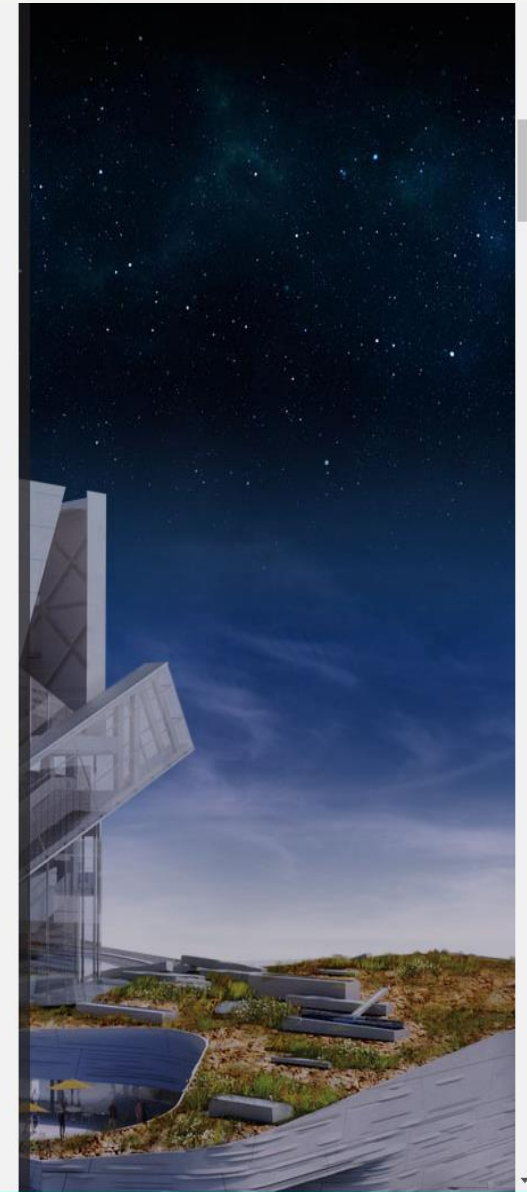
UTD Clinic - Chassis Building and Attachments

September 23, 2017
9am - 12pm
The University of Texas at Dallas
[Registration is required.](#)

This clinic is for coaches/mentors and up to TWO (2) team members.

This event is **free**!

UT-Dallas Science and Engineering Education Center (UTD/SEEC) will be hosting a clinic on FLL chassis building and attachments. The clinic will start with an overview of the LEGO building pieces most commonly used for building FLL robots, and then present the design principles important to developing a good chassis and efficient Robot Game execution. The clinic will then demonstrate a wide variety of attachment types and mounting options.



WHERE ARE WE GOING?

- Clinics
- Scrimmages
- 1st Round Qualifiers

FLL MINI SITE - QUALIFIERS

The screenshot shows the Perot Museum of Nature and Science website. The top navigation bar includes links for Careers, Volunteer, Store, Your Account, Cart, and Email Signup, along with the text "Today's Hours: 10am-6pm". A secondary navigation bar contains links for Visitor Information, Explore The Museum, Programs & Events (which is highlighted), and About The Museum. Below this, a red bar contains links for Membership, Giving, and Get Tickets.

The main content area features a large blue banner for the "FIRST LEGO® League" with the organization's logo. Below the banner, a text block states: "The Perot Museum is proud to serve as the North Texas affiliate of **FIRST LEGO® League** – a regional engineering competition that challenges students to use their creativity and technical knowledge to create robots designed to solve real-life problems." This text is dated [1] [SEP].

A green box contains two announcements: "The 2016-2017 Challenge, **ANIMAL ALLIES**, has concluded. Congratulations to our North Texas Regional Championship winners!" and "The 2017-2018 Challenge, **HYDRO DYNAMICS**, will have official details released on August 29, 2017 – but in the meantime, check out this teaser and upcoming related events! You can also check out the Field Setup Guide and overhead map photos here!"


At the bottom, there is a section titled "First Lego League 2017 from Beyond" with a video thumbnail showing yellow LEGO robots.

On the left side of the page, a dark sidebar menu is visible. A red arrow points to the "Qualifiers" link in this menu. The menu items are: FIRST LEGO® League, Events, Qualifiers, Championship, Creating a Team, Scholarships and Sponsorships, Coaching Resources, and Volunteers.

FLL MINI SITE - QUALIFIERS

[Visitor Information](#) [Explore The Museum](#) [Programs & Events](#) [About The Museum](#) [Membership](#) [Giving](#) [Get Tickets](#)

FIRST LEGO® League




FI

[FIRST LEGO® League](#)
[Events](#)
[Qualifiers](#)
[Championship](#)
[Creating a Team](#)
[Scholarships and Sponsorships](#)
[Coaching Resources](#)
[Volunteers](#)

Qualifiers

There are 12 First Round Qualifiers held in December. Each team can only participate in 1 First Round Qualifier. Teams who score highly in the Robot Game matches AND rank highly in ALL judged categories will be eligible to advance to the Second Round qualifiers and/or directly to the [Regional Championship](#). All competitions are held at various schools around North Texas.

In order to participate in official competitions, you must [register your team with FIRST](#) at the beginning of the season.



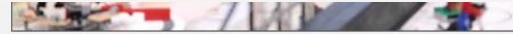
[2017-2018 SEASON]

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FLL MINI SITE - QUALIFIERS

Resources

Volunteers



[2017-2018 SEASON]

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Details about the upcoming season will be posted on August 29, 2017. In the meantime, be sure to check out the [official FIRST teaser video!](#)

First Round Qualifiers

■ December 2

- Allen High School
- Parish Episcopal School
- Fellowship Christian Academy
- Hillsboro Junior High
- Dallas ISD

■ December 9

- Burleson High School
- Braswell High School
- Plano ISD
- Nolan Catholic High School

■ December 16

- Bethesda Christian School
- Plano ISD
- Heritage Middle School

Second Round Qualifiers

■ January 13

- Grand Saline High School

■ January 20

- Grand Saline High School



WHERE ARE WE GOING?

1st Round Qualifiers

December 2nd

- Allen High School
- Parish Episcopal School
- Fellowship Christian Academy
- Hillsboro Junior High
- Dallas ISD

December 9th

- Burleson Junior High
- Braswell High School
- Plano ISD
- Nolan Catholic High school

December 16th

- Bethesda Christian School
- Plano ISD
- Heritage Middle School

FLL MINI SITE - QUALIFIERS

[QUALIFIER REGISTRATION - OPENS OCTOBER 23, 2017]

- **Qualifier locations are first come, first served.** Once a location is filled it will be removed as an option. Teams **CANNOT** change their qualifying site after registration.
- **Registration is not complete until payment is received.** Payments can be made by credit card, check, or purchase order.
- If paying by credit card, teams may register online. **Payment by credit card is strongly recommended** and the best way to ensure your spot is held.
- If paying by check or purchase order, teams must call the Reservation line to register **with payment ready** to be made. After giving details to Reservations, you must mail in your check or purchase order within 7 days. You may mail your check in early but this does not reserve your spot; you must all Reservations to complete your registration.
- Include your team's name and number as well as the coach's name on your check.
- An invoice can be generated in advance by contacting fill@perotmuseum.org.
- Only full and completed registration including payment reserves your spot. **Payment must be received by 11:59 p.m. on November 17, 2017 or your team will not be able to compete.**
- Qualifier fees are nonrefundable.

To register for a Qualifier, teams must already be registered with FIRST. Qualifier registration will be handled through the Perot Museum of Nature and Science.

Need an invoice? Email fill@perotmuseum.org with your team name, team number, and billing information.

You will need the following information available to register:

- Team number
- Team name
- Coach's name, email and phone number (we will communicate with you via email)
- Payment

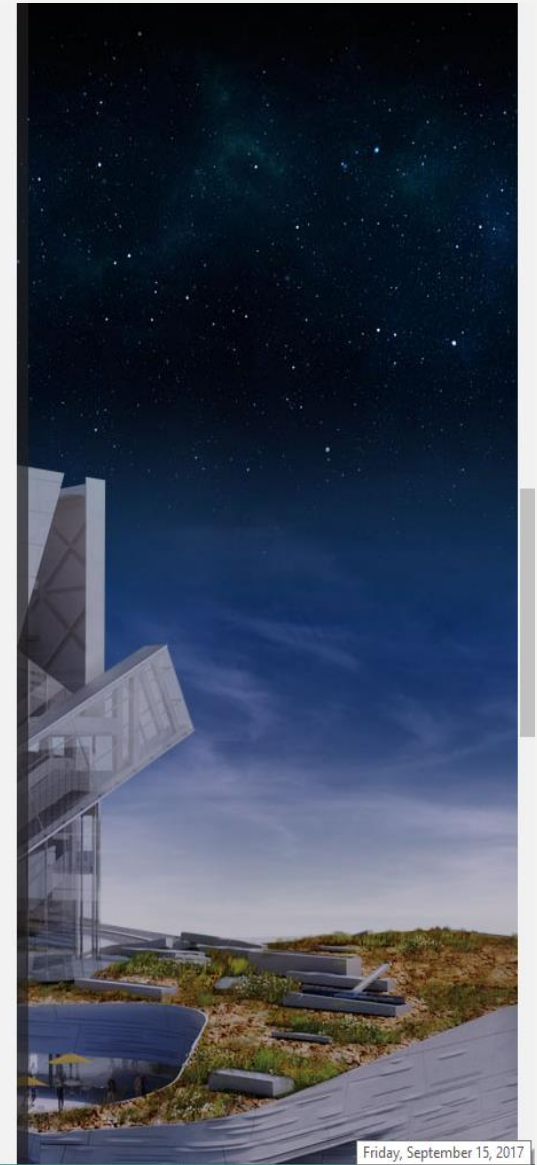
[FAQS]

How Much Does a Qualifier Cost?

\$125.00. Qualifier registration fees are separate from the registration fee paid to FIRST when a coach registers their team. Competition registration fees will be due to the Perot Museum upon registration for the competitions.

What Goes on at Qualifiers?

Each qualifier is a one-day-long event where teams will demonstrate what they've built, programmed, researched, and learned in four categories of competition:



QUALIFIER REGISTRATION

- First Come; First Served
- Registration is not complete until payment is received.
- Payment by check, PO, or credit card by phone.
- Payment by credit card only by website.
- Have payment ready to go – request and invoice fll@perotmuseum.org
- Payment must be received by November 17th
- **REGISTRATION OPENS OCTOBER 23rd at 10:00 a.m.**

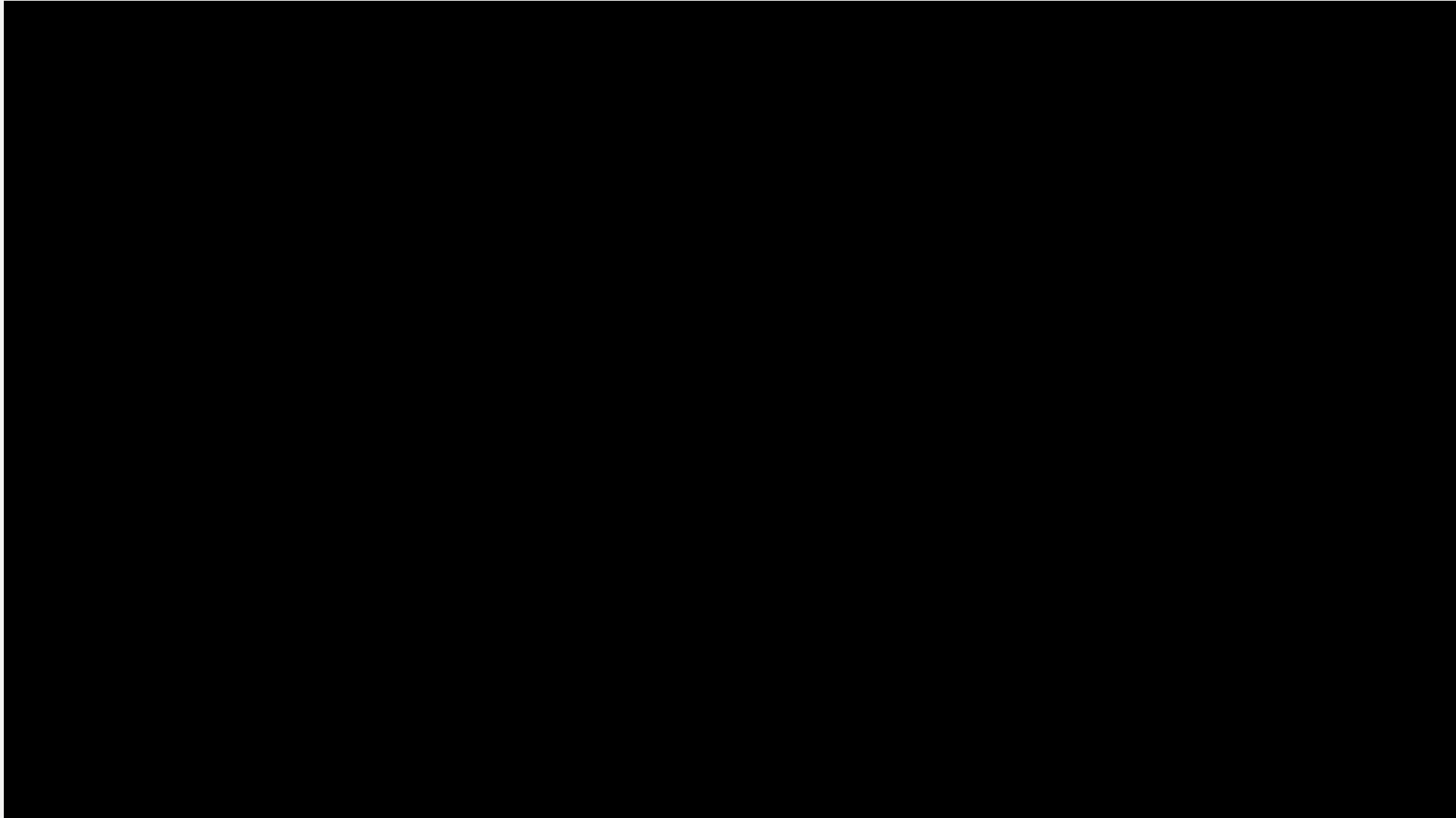
WHERE ARE WE GOING?

- Clinics
- Scrimmages
- 1st Round Qualifiers
- 2nd Round Qualifiers - Grand Saline High School
 - January 13th
 - January 20th

WHERE ARE WE GOING?

- Clinics
- Scrimmages
- 1st Round Qualifiers
- 2nd Round Qualifiers
- Championship – Parish Episcopal School
–February 3rd

WHERE ARE WE GOING?



WHERE ARE WE GOING?

- 1st Round Qualifiers – Area Schools
 - December 2nd
 - December 9th
 - December 16th
- 2nd Round Qualifiers – Grand Saline High School
 - January 13th
 - January 20th
- Championship – Parish Episcopal School
 - February 3rd

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COMPETITIONS

THE BIG SHOW

- 3 Judged Categories

THE BIG SHOW

- 3 Judged Categories
 - Robot Design
 - Robot Design Executive Summary

ROBOT DESIGN EXECUTIVE SUMMARY



Robot Design Executive Summary (RDES)

To help the Robot Design Judges quickly and consistently learn about your robot and the design process used, we are requiring a short presentation. An "executive summary" is often used by engineers to briefly outline the key elements of a product or project. In other words, the purpose of the RDES is to give the Robot Design Judges an outline of your robot and all that it can do. The RDES is intended to help your team consider in advance the most important information to share with the Judges. What you chose to share will enable the Judges to effectively evaluate your team and provide more helpful feedback.

Your team is free to determine how much time you invest, but realistically it should only take a few hours to develop and practice the RDES. The RDES is NOT intended to be as extensive or time consuming as your Project.

Your team will present your RDES at the beginning of your Robot Design judging session. The entire presentation, including the trial run, should not take any longer than **four (4) minutes**. Following your Robot Design presentation the Judges will pose questions for your team to answer. You are not required to provide a written version of the RDES to leave with the Judges.

Basic Outline: The RDES should include the following elements: *Robot Facts*, *Design Details*, and a short *Trial Run*.

Robot Facts: Share with the Judges a little bit about your robot, such as the number and type of sensors, drivetrain details, number of parts, and the number of attachments. The Judges would also like to know what programming language you used, the number of programs and the amount of memory used by each program, and your most consistently completed mission.

Design Details:

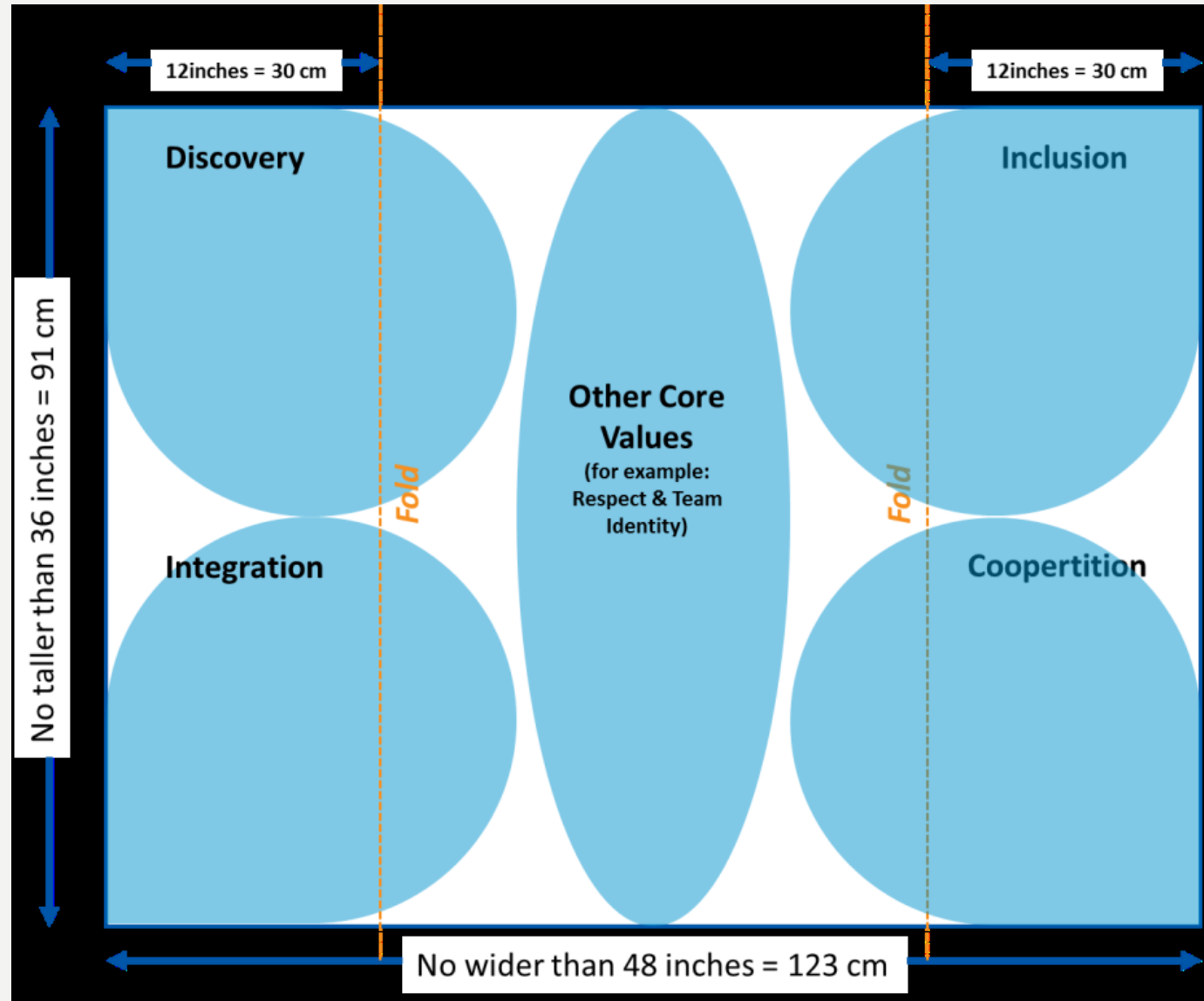
1. **Fun:** Describe the most fun or interesting part of robot design as well as the most challenging parts. If your robot has a name, who chose the name and why. If your team has a fun story about your robot please feel free to share.
2. **Strategy:** Explain your team's strategy and reasoning for choosing and accomplishing missions. Talk a little bit about how successful your robot was in completing the missions that you chose. Judges may like to hear about your favorite mission and why it is your favorite.
3. **Design Process:** Describe how your team designed your robot and what process you used to make improvements to your design over time. Briefly share how different team members contributed to the design and how you incorporated all the ideas.
4. **Mechanical Design:** Explain to the Judges your robot's basic structure, how you make sure your robot is durable and how you made it easy to repair or add/remove attachments. Explain to the Judges how the robot moves (drivetrain), and what attachments and mechanisms it uses to operate or complete missions.
5. **Programming:** Describe how you programmed your robot to ensure consistent results. Explain how you organized and documented your programs, as well as, mention if your programs use sensors to know (and ensure) the location of the robot on the field.
6. **Innovation:** Describe any features of your robot design that you feel are special, different or especially clever.

Trial Run: If a Robot Game table is available, demonstrate the operation of your robot for the Judges performing the mission(s) of your choice. Please do not do an entire robot round; time will be needed for Judges to ask questions of your team.

THE BIG SHOW

- 3 Judged Categories
 - Robot Design
 - Core Values
 - Core Values Poster

CORE VALUES POSTER



THE BIG SHOW

- 3 Judged Categories
 - Robot Design
 - Core Values
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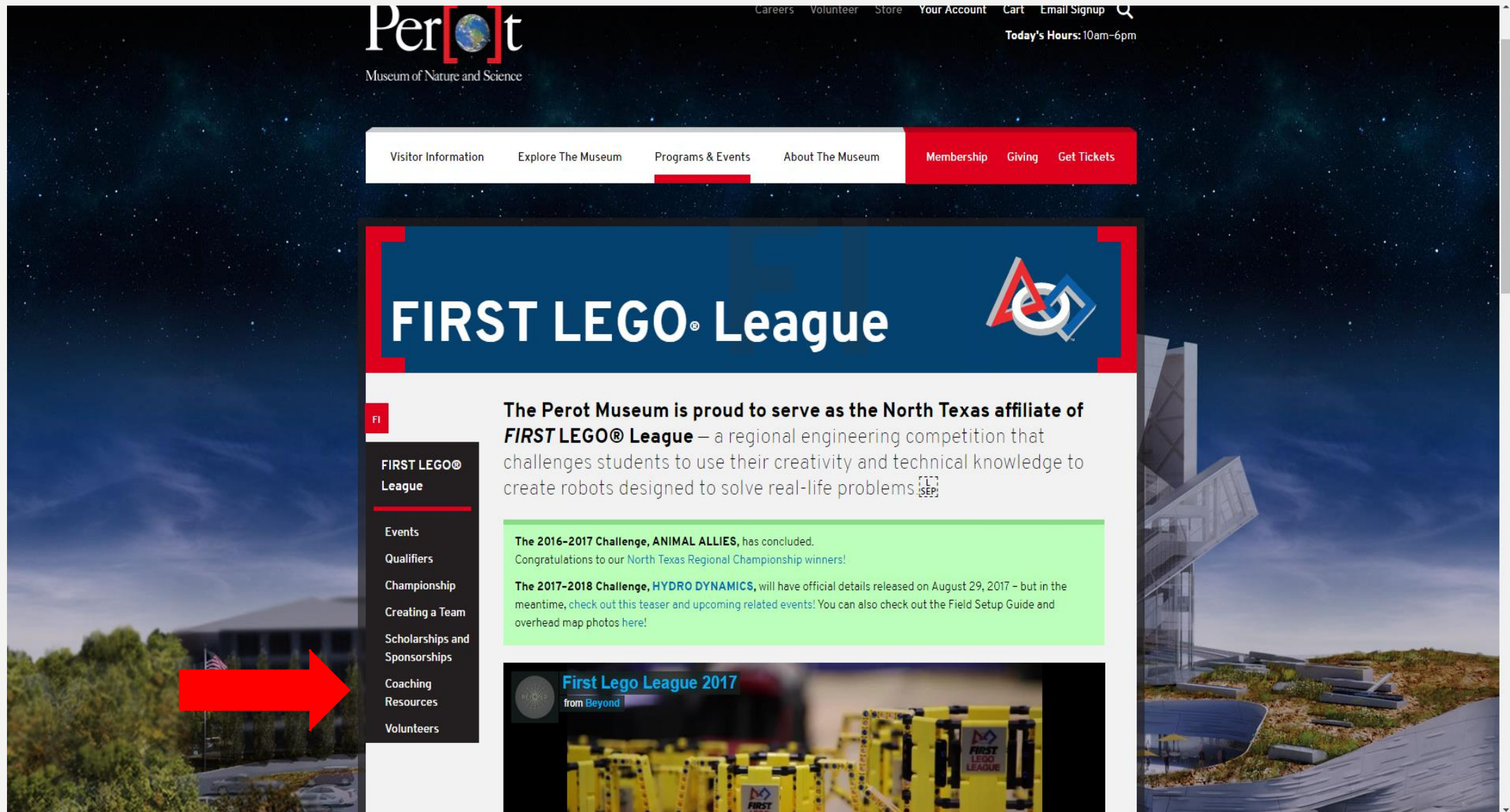
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RESOURCES

FLL MINI SITE – COACHING RESOURCES



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FI

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First Lego League 2017
from Beyond

FLL MINI SITE – COACHING RESOURCES



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FIRST LEGO® League

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Coaching Resources

Welcome new and returning coaches! The 2017-2018 FLL season: HYDRO DYNAMIC is coming together and will officially begin August 29th with the release of the Challenge details. Good luck to all our North Texas teams!

Team registration opens in May on FLL's website until late September. The first step to participating is to register through *FIRST* Headquarters. To register a team through *FIRST*, coaches will now have to pass a background check before they can register a team. Team registration is \$225 and the field kits needed to participate are \$75. You can find all the information you need, plus links to the registration websites on our [Creating a Team page](#).

Consent and Release Form

- *FIRST* LEGO® League requires all team members, coaches and anyone else associated with your team to sign an FLL Consent and Release form before being allowed to compete at an event. Hint: Scan the form once your team member completes it - you will need to provide a copy at every event you attend!
- [Consent Form \(English\)](#) and [Consent Form \(Spanish\)](#)

Season Specific Links

These links will be live as they become available:

- [Coaches Handbook](#)



FIRST LEGO® League

Coaching Resources

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FLL MINI SITE – COACHING RESOURCES



Consent and Release Form

- FIRST LEGO® League requires all team members, coaches and anyone else associated with your team to sign an FLL Consent and Release form before being allowed to compete at an event. Hint: Scan the form once your team member completes it - you will need to provide a copy at every event you attend!
- [Consent Form \(English\)](#) and [Consent Form \(Spanish\)](#)

Season Specific Links

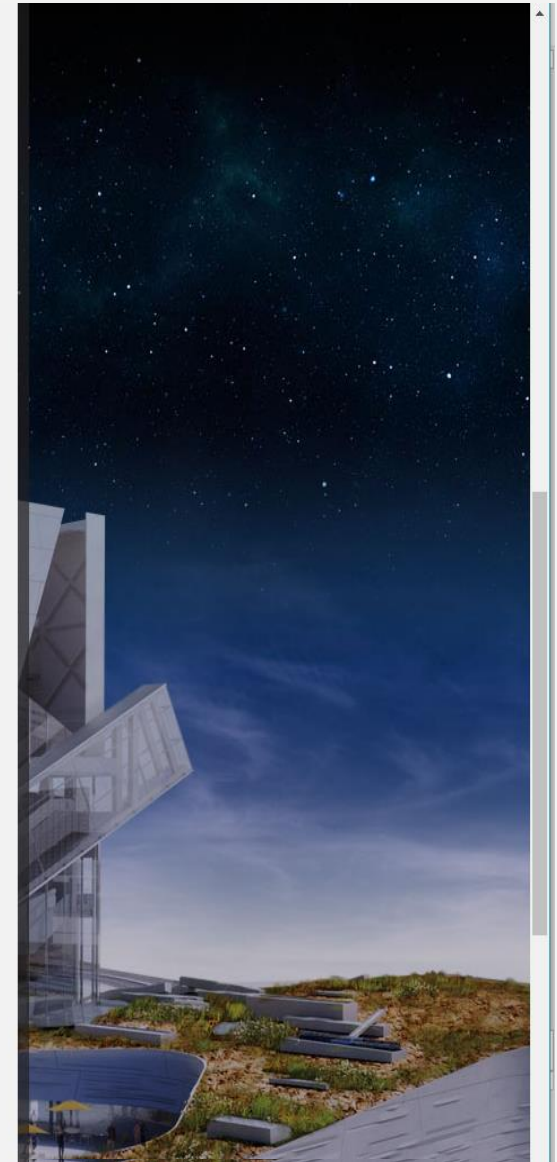
These links will be live as they become available:

- [Coaches Handbook](#)
- [Challenge Document](#)
- [Challenge Guide](#)
- [Challenge Updates](#)
- [Mission Model Build Instructions](#)
- [Field Set Up Guide](#)
- [Field Overview Photo](#)
- [Core Values](#)
- [FLL Table Build Instructions](#)
- [Rubrics](#)

Additional Websites

- [Webinars from FIRST](#)
- [Roboplex](#)
- [Fellowship Christian Academy Robotics and Engineering](#)
- [North Texas FLL Google Group](#)

For answers to FLL questions and details about the North Texas region, please contact Shannon Page at FLL@perotmuseum.org.



CONTACT INFORMATION

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