

**FIRST** **POWER UP** 



Lake Oswego Site Specific Information  
March 14, 2018

# 2018 DISTRICT SCHEDULE PACIFIC NORTHWEST LAKE OSWEGO DISTRICT EVENT

## Competition Schedule

<b>Thursday, March 29, 2018</b>	
5:00PM-9:00PM	Pits Open
<b>Friday, March 30, 2018</b>	
8:00AM-10:30AM	Pits Open, Practice Rounds, Inspections
10:30AM-11:00AM	Opening Ceremonies
11:00AM-1:00PM	Qualification Matches
1:00PM-2:00PM	Lunch
2:00PM-7:30PM	Qualification Matches
8:00PM*	Pits Close
<b>Saturday, March 31, 2018</b>	
8:00AM	Pits Open
9:00AM-9:30AM	Opening Ceremonies
9:30AM-11:00AM	Qualification Matches
11:00AM-11:30AM	Alliance Selections
11:30AM-12:30PM	Lunch
12:30PM-3:30PM	Playoff Matches
3:30 PM-4:15PM	Awards Ceremony
4:45PM*	Pits Close

*\*Schedule subject to change. All times are estimated based on flow of rounds.  
See Pit Administration table for updated times.*



# Lake Oswego

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Is a Thursday, Friday, Saturday event

- Day 1 is Thursday
- Day 2 is Friday
- Day 3 is Saturday

To lessen confusion, the rest of this PowerPoint will talk about Day 1, Day 2 and Day 3



# Overview of Presentation

- Event Specific Information
  - General Logistics: Parking/Busses/Food
  - Load in / Load Out
- Walk through of the event
  - Tour of the areas
  - Day 1: Inspection Day
  - Day 2: Qualifications
  - Day 3: Eliminations

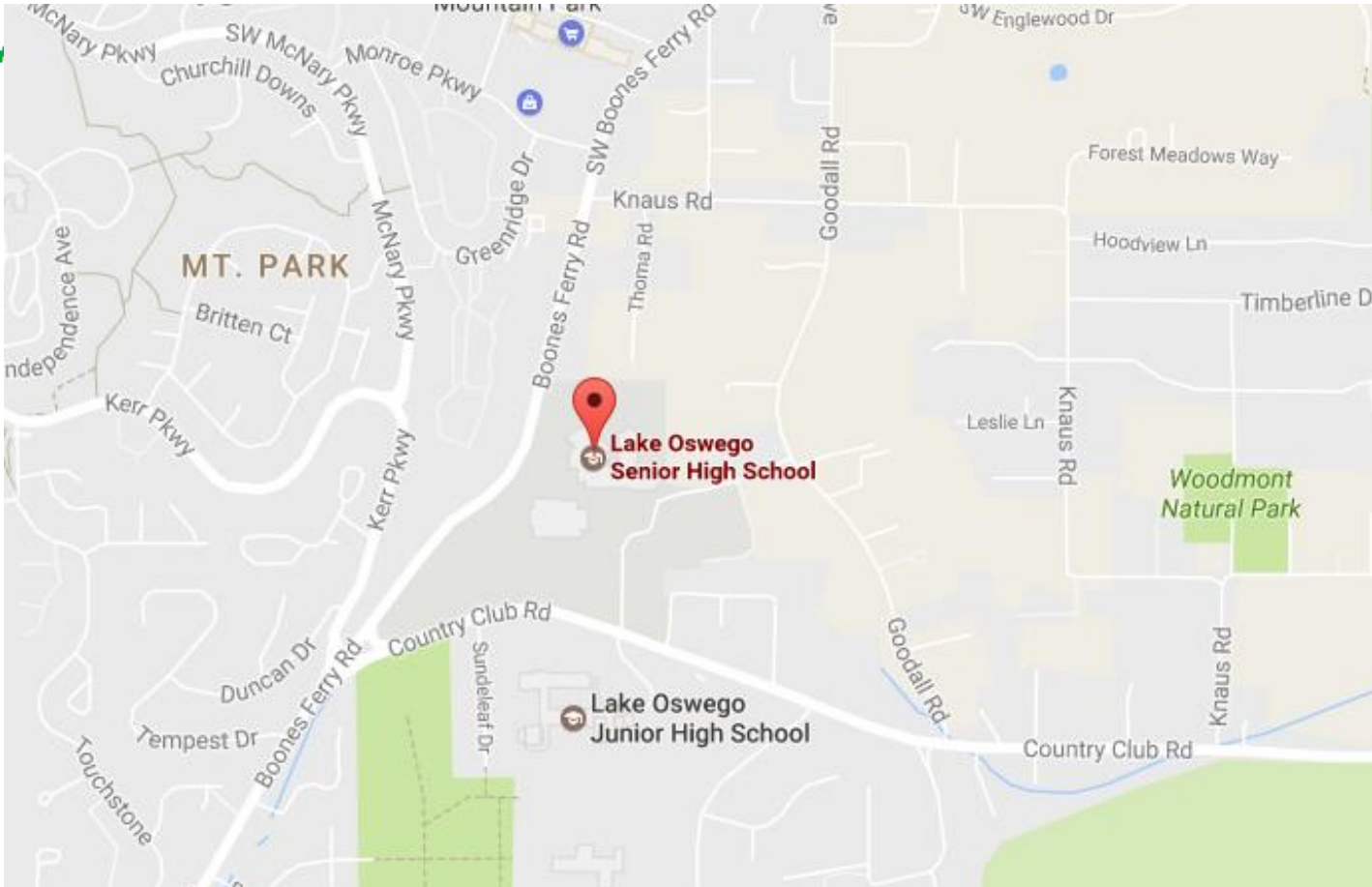


# Before you arrive!

- We need your main contact while onsite to visit <http://firstwa.org/FRCRSVP> and register
  - By default you will not receive a pit table from us. If you need us to provide you a table, you need to request one when you register on firstwa.org
  - Acknowledge you have 3" wheels
  - Student/Mentor count
  - Your mobile phone number
- Please do this by **Monday, 3-19-18** (if you complete this form after 3-19-18 you may not receive a table)



# Lake Oswego High School



# Day 1 Arrival

- Please arrive after 5:00 pm
- Please do not arrive before 5:00 pm!
- Please do not show up early!
  - We will be setting up prior to 5:00 pm and won't be ready





# Logistics: Robot Load-In



- Enter on Hazel Rd
- Road is one way at top, follow loop around to gym
- Continue around loop and back out Hazel Rd.





# Logistics: Parking

Lake Oswego High School

Lake Oswego Junior High School

River West Church –  
**no parking Fri** but can  
park there Thurs &  
Sat

Team trailer & bus  
parking: Uplands  
Elementary.



# Logistics: Trailer & Bus Parking

## Team Trailer and Bus Parking

Parking for trailers and buses is at Uplands Elementary.

To drive to Uplands from LOHS, turn left on Country Club Rd. Turn right on Wembley Park Rd. Turn right at the sign for Uplands Elementary School.

Note, there is a shortcut to walk to high school. Follow red arrows.



# Day 2 Arrival

- Please arrive after 8:00 am
- Please do not arrive before 8:00 am!
- No Teams will be allowed in the building prior to 8:00 – even if the weather is unpleasant.
  - If you arrive early, you are welcome to wait under the covered football stands





# Logistics: Food

- Concessions will be open Day 1, Day 2 and Day 3
- Box lunch options from Subway are available.
  - You can find an order form on the Lake Oswego event page of the firstwa website. <http://firstwa.org/Team-Resources/FIRST-Robotics-Competition-Team-Resources/FRC-Events/2018-Week-5-Lake-Oswego>
  - Order forms are due **Wednesday, Wed, March 21**
- Bringing food?
  - You may bring food into the venue
  - Teams also may eat under the covered football stands (teams are not allowed on football field)
  - **Note: please do not plan to use power onsite to heat food or keep it hot. We are using all of the power in the building and your crock pots etc will get unplugged.**
- Clean up after yourself



# About the pit Power

- Pit power is limited. We are putting up to 8 teams on a single 20 amp circuit
  - Power generator is shut down overnight
  - Consider charging your batteries overnight at home / hotel
    - (Remember: 12 rounds may require several batteries)
  - No compressors or other large motors
  - Limit 400 watts per team, 2400 watts per 6 team Power Alliance
  - Lighting should go with low wattage
- High school gyms have very little power
  - You may NOT use any outlets in or around the gym
  - The game equipment uses all available power
  - We will remove and confiscate any equipment from gym outlets until after awards ceremony on Saturday. **You have been warned!**



# Safety Glasses

- Teams are expected to provide safety glasses for their team members and spectators to use in the pits
- The safety glasses FIRST Washington brings are for the public, not for teams or spectators affiliated with teams
- No safety glasses will be given out Day 1. **Have them with you and accessible when you load in, you will not be allowed in the pits without them.**
- We will not hand out safety glasses to anyone wearing a team shirt
- We will be very diligent about collecting the safety glasses when spectators leave the pits





# Schedule Overview: Whole Event

- Day 1: Team Arrival and Inspections
  - Driver Meeting will be at 7:30 pm **Day 1**
- Day 2: Qualification Matches
- Day 3 AM: Qualification Matches
- Day 3 PM: Final Rounds / Team Departures



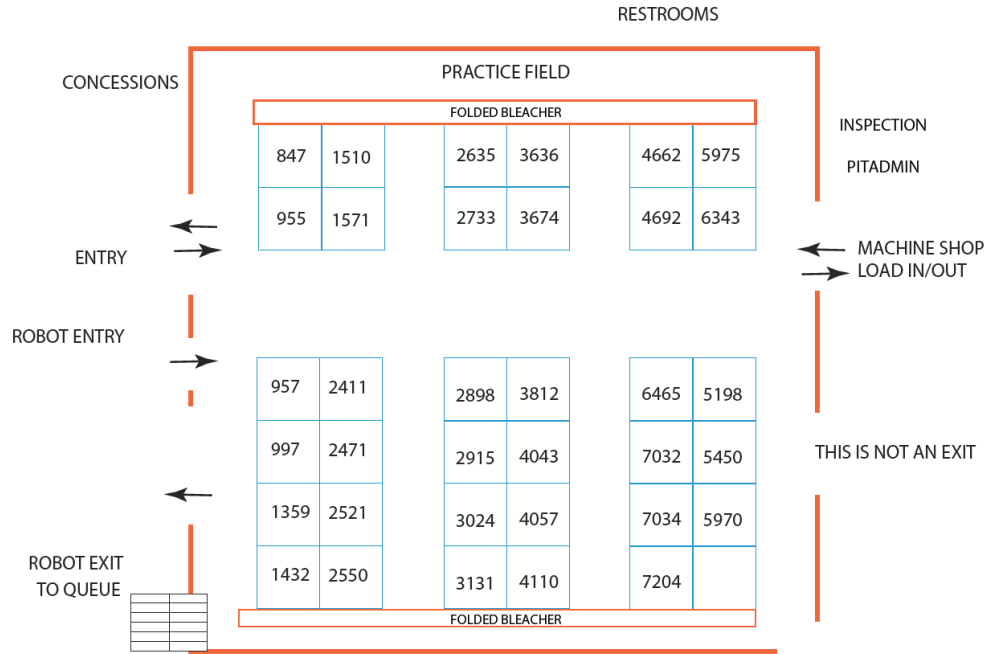
# Load-In and Inspection

## Day 1: 5pm – 9:00pm

- Safety glasses are mandatory. You will not be allowed into the area without them.
- Follow instructions from onsite staff.
- You may NOT park in the loading area. The driver MUST stay with the vehicle. Drop it and park in designated area. Staff your unload team appropriately to make this happen.
- Bring a cart! You will need a cart with at least 3" diameter wheels. Our cable protection bumps are 2" in height. We recommend 4" or larger wheels.
- Your FIRST and Only goal on Day 1 is passing inspection!



# 2018 PNW FIRST ROBOTICS LAKE OSWEGO DISTRICT EVENT



847	PHRED	Philomath	OR	3636	Generals	Portland	OR
955	CV Robotics	Corvallis	OR	3674	4-H/CAM Academy Clover Bots	Battle Ground	WA
957	SWARM	Albany	OR	3812	Bits & Bots	Longview	WA
997	Spartan Robotics	Corvallis	OR	4043	NerdHerd	Mcminnville	OR
1359	Scalawags	Lebanon	OR	4057	Klamath Basin Robotics	Klamath Falls	OR
1432	Metal Beavers	Portland	OR	4110	DEEP SPACE NINERS	Brookings	OR
1510	Wildcats	Beaverton	OR	4662	Byte Sized Robotics	Scappoose	OR
1571	CALibrate Robotics	Gresham	OR	4692	Metal Mallards	Toutle	WA
2411	Rebel @lliance	Portland	OR	5198	Knight Tech	Grants Pass	OR
2471	Team Mean Machine	Camas	WA	5450	St. Helens Robotics	Saint Helens	OR
2521	SERT	Eugene	OR	5970	BeaverTronics	Beaverton	OR
2550	Skyнет	Oregon City	OR	5975	Beta Blues	Portland	OR
2635	Lake Monsters	Lake Oswego	OR	6343	Steel Ridge Robotics	Ridgefield	WA
2733	Pigmice	Portland	OR	6465	Mystic Biscuit	Bend	OR
2898	Flying Hedgehogs	Beaverton	OR	7032(R)	La Pine High FRC	La Pine	OR
2915	Pandamonium	Portland	OR	7034(R)	2B Determined	West Linn	OR
3024	My Favorite Team	Ashland	OR	7204(R)	Prospect Cougars	Prospect	OR
3131	Gladiators	Gladstone	OR				

**FIRST  
POWER  
UP**

Map reference only, not in correct proportion  
\* Host (R) Rookie



# Wheel requirements for carts, boxes, and anything rolling

- Our venues will have power cord covers (aka Yellow Jackets)
  - Our yellow jackets are 2" tall
- Your FRC robot cart **MUST** have > 3" diameter wheels
  - Wheels must be in good working order. No damaged or stuck wheels. Soft rubber. No hard plastic or steel tread wheels.
  - Maximum weight for your carts, tool boxes, etc will be 50 lbs per inch of wheel size (1 cart, 4 x 3" wheels, 600lbs max)
- Under no circumstances will we allow wheels less than 3" in diameter on **ANY** equipment / boxes / carts
  - Very high likelihood of damage to floors
  - You won't clear our cable management equipment
- All wheels must be non marking rubber or synthetic wheels
  - No steel wheels. No sharp wheels.



# Day 1 is Inspection Day

- Your primary goal for Day 1 is to get your robot to pass inspection.
- This is a short and intense activity. Preparation is the key to making it a good day.
- Asking for help is a good thing. Providing another team help is the highest honor in **FIRST**. Don't be bashful.
- Teams with lower numbers have experience.



# Day 1 Pits Open: 5pm

- At exactly 5 PM we intend to open the pit area for everyone.
- Please be prepared to be flexible. This is our first time in this space and our volunteers will be working hard to get everyone in the building as soon as possible.
- You must wait for clearance to enter the building.
- You **MUST** have safety glasses on your face!
- We can not provide safety glasses for team members. You **MUST** bring your own.





# Do less better

- These are smaller events.
- You are onsite for less time.
- Consider travelling light!
  - Less setup time
  - More room in your pits
  - Save the big pit displays for District Championship!



# Day 1 Team Registration: 5PM

- Your lead mentor must visit the pit admin desk starting at 5PM.
- Bring required forms
  - Team Roster printed from TIMS with hand written additions if needed.
  - Consent forms for all team members (students and adults) who aren't in TIMS/STIMS **The expectation is that all of your students and mentors have registered and are on the printed roster. You should have very few printed consent forms.**



# Who to bring Day 1

- You really want your drivers and core robot builders and mentors Day 1.
- Depending on your teams logistics, you might consider having a partial team Day 1 and the whole team Day's 2 & 3.
- Day 1 is NOT a good spectator day
  - It is ALL in the pits Day 1.



# Veteran Teams

- Bring Spare Parts
- Please consider bringing unused sensors, motors, control units, and hardware for loan to other teams.
- For those of you who have been around, we are reinstating the S.W.A.T. team this year for programming (Nation wide, there is a shortage of CSA's). If you have a student who would like to be part of our S.W.A.T team, and receive a cool button, fill out this survey: <http://www.firstwa.org/swat>



# Day 1

## Inspection Process: 5PM

- Inspection involves 4 steps
  - Size and weigh-in at the inspection station
  - Control system inspection at the CSA station
  - Physical robot inspection at your pit starting 5PM
  - Connection to the field controller at least once Friday morning
- Inspectors are your friend! Inspectors are here to help get you on the field safely and fairly. They will help you pass inspection.



# Starting the inspection process

- You may enter the weight / size line at any time after 5PM.
- After weight and size, stop at the CSA desk for the control software check.
- You may sign up at the Inspection desk for an in-pit inspection appointment starting at 5 PM. We invite you to sign up early.





# Inspection Tips

- It is rare for a robot to pass inspection on the first attempt. It is an iterative process.
- PLEASE: Get inspected early, even if you are not ready. You might have an issue that takes time to fix.
- All teams must connect to field as part of inspection.
- You MUST pass inspection to earn qualifying points.



# WPA Key Assignment

- Your robot radio (WPA Key) must be reprogrammed at each event you attend.
- This is required to connect & compete at the field.
- A kiosk (with instructions) is provided for you to program your radio.
  - The kiosk will be located at inspection or pit admin



# Word to the Wise

- Day 1 is no longer the final build day. It is now pass inspection day!
- **Remember** Your team has 6 hours of robot access during the week prior to your District event. Use it VERY wisely.
- Do not be bashful about asking for help. We have all been there before.



# End of Day 1

- The pits close at 9:00PM on Day 1.
- You **MUST BE OUT OF THE BUILDING** before 9:00PM. The building closes at 9:0PM.
- We dislike doing it, but we will come lead you out of the building starting at 8:55PM. No exceptions.



# Practice Rounds: Day 2 8:30 AM

- Practice matches are scheduled, and will run from 8:30 AM to 10:00 AM
- You have to pass inspection to run a practice match.
- It is very common for teams not to be ready for their scheduled match in the mornings. We will accept teams on a first come/first served basis who wish to take an unscheduled practice round. Check in with the lead Queue Manager to get on the list.
- Priority will always be given to teams scheduled and/or teams who have not been on the field at least once. Be gracious and professional if you get bumped for a higher priority team.



# Connecting to the field: The Final Step

- If you run a practice match during Day 2 morning, the field computer will remember that as your last step of the inspection process.
- If you are unable to make a practice match, we are going to ask you to take your robot and control system out to the field for a quick 5 minute test to insure your system can connect to the field. Your robot will not be on the field, we will simply connect it to the field while sitting on your cart.
- THIS IS A MANDATORY STEP!
- Many simple issues are solved by doing this on Day 1 that would otherwise cause you problems when it really counts!
- Our goal is for you to connect to the field by 10 AM Day 2



# Machine Shop Open: Day 2

- We have a volunteer machine shop onsite to help you fabricate replacement parts.
- The shop has small mills, lathes, and various other tools.
- ONLY AUTHORIZED MACHINE SHOP VOLUNTEERS MAY USE THESE TOOLS!
- We have excellent volunteer machinists. However, there are limits to what they can do for your team.
- We have a TIG welder.
- The machine shop has request forms for your team. It will be located near the loading ramp on the arena floor.
- In general, the machine shop will NOT loan you tools.



# Day 3: Load Out

- No parking in load out area.
- Load out during elimination rounds on Day 3 is fine





# Thanks for attending

- You can contact [arime@firstwa.org](mailto:arime@firstwa.org) with additional questions
- These slides will be posted on the West Valley event page on [firstwa.org](http://firstwa.org)

