



BRUNSWICK ERUPTION13

Team Information Packet

be.raiderrobotix.org



@BrunsEruption



/BrunswickEruption

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Event Information

When

Saturday, November 8th, 2014

Where

North Brunswick Township High School
98 Raider Road
North Brunswick, NJ 08902

Registration and Payment

FRC team registration for Brunswick Eruption costs \$200. Any teams bringing a pre-rookie team to compete will receive a \$100 discount per pre-rookie. As always, pre-rookies play for free.

There are currently 41 teams registered for BE13, with 1 team invited from the wait list. At this point, registered teams should have each received an invoice for payment via email during September. If you have not already paid the registration, please bring your payment to the event or contact Wayne Cokeley at smwonder@comcast.net to set up arrangements. Please make checks payable to **NBTHS Robotics**.

Agenda

7:00 AM	Doors Open
7:30 - 8:00 AM	Practice Matches
8:00 - 8:25 AM	Opening Ceremonies
8:30 - 12:40 PM	Qualification Matches
12:45 - 1:00 PM	Alliance Selections
1:00 - 2:00 PM	Lunch Break
2:00 - 2:15 PM	Evil Sundae Contest
2:15 - 2:35 PM	Awards Ceremony
2:35 - 4:45 PM	Elimination Matches
4:45 - 5:00 PM	Closing Ceremonies

What to Bring

Please make sure that your team brings the following materials to the competition. Outside of asking the other teams attending Brunswick Eruption, there will be no designated spare parts table. If essential, we can make an announcement on the field for any part requests.

1. Safety glasses for all team members, plus any extras for guests
2. A working robot with its driver station, bumpers, and controls
3. Robot DAP-1522 Rev B wireless bridge (radio)
4. Programming laptop
5. Power strips and extensions cords (each team's pit will be outfitted with a power connection)
6. Robot batteries and chargers
7. Non-perishable food items for the food drive
8. Any old, used and unwanted shoes to be recycled for our shoe drive
9. Gracious Professionalism :)

Arrival

Robot Drop Off

Teams can drop off their robots and pit supplies early starting on Friday, November 7th between 4:00PM and 7:00 PM.

Otherwise, regular robot drop off will start at 7AM on the morning of the event, Saturday, November 8th. **If your team is running late or will not attend last minute, please call or text Wayne Cokeley at (609) 558-8326 or 8325.**

Directions

At the end of Raider Road, make a right turn into the parking lot. Robots and supplies can be unloaded curbside (in between the football field entrance and the academic trailer). Then follow the sidewalk path to enter the school near the rightmost entrance. Heading straight down the hallway will lead you to the check-in table and main gym area.

What To Do Upon Arrival

1. Check in with Mr. Cokeley at the team registration table, located at the entrance to the pits on the side of the gym.
2. Bring your robot's radio to the scoring table to have it configured with the proper WPA key.
3. Once your radio has been configured and your robot is ready, sign up for a practice match as soon as possible so we can ensure your robot connects to the field. To sign up for a practice match, please go to the red alliance side of the field and speak to the lead queuer. Practice matches will be filled on a first come, first served basis.
4. Enjoy a tasty breakfast from our concession stands.

Rule Changes

Robot inspection and weight in will not take place.

However, the following changes to the 2014 Aerial Assist game manual will be in effect (changes highlighted in blue):

3.1.4 Scoring

ASSISTS are earned when a unique ALLIANCE ROBOT POSSESSES the ALLIANCE'S BALL in a **unique** ZONE (i.e. red, white, or blue ZONE) during a CYCLE.

A BALL is considered SCORED in an ALLIANCE'S GOAL if

- A. a ROBOT causes one (1) of their ALLIANCE'S BALLS to cross completely and remain completely through the opening(s) of one (1) of their ALLIANCE'S GOALS without intervening TEAM member contact,
- B. **the ALLIANCE ROBOT last in contact with the BALL was entirely between the TRUSS and their ALLIANCE'S HIGH GOALS,** and
- C. the BALL is not in contact with any ROBOT from that ALLIANCE.

The intent of this rule change is to make it such that a trussed ball that bounces into an alliance's low goal is counted as scored, rather than having to be returned to the nearest HUMAN PLAYER.

G12

An ALLIANCE may not POSSESS their opponent's BALLS. The following criteria define POSSESSION :

- A. "carrying" (moving while supporting BALLS in or on the ROBOT or holding the BALL in or on the ROBOT),
- B. "herding" (repeated pushing or bumping),
- C. "launching" (impelling BALLS to a desired location or direction via a MECHANISM in motion relative to the ROBOT), or
- D. "trapping" (overt isolation or holding one or more BALLS against a FIELD element or ROBOT in an attempt to shield them).

Violation: **NO FOUL**, if unintentional, **and** inconsequential, **and immediately rectified** (i.e. does not significantly impact MATCH play). **TECHNICAL FOUL** per consequential instance. **TECHNICAL FOUL** per extended instance. If strategic, **RED CARD** for the ALLIANCE.

Rule Changes

G21

ROBOTS may not extend outside the FIELD.

Violation: *If intentional or if ROBOT extends into the SAFETY ZONE, FOUL. If continuous or repeated violations, TECHNICAL FOUL. If contact with anything outside of the SAFETY ZONE, RED CARD and the robot will be DISABLED.*

The referees will be relaxed with their rulings with respect to robots temporarily extending outside of the field or human players extending past the SAFETY ZONE. However, repeated or unsafe violations will be penalized.

The Tournament

The alliance selection process will follow the procedure outlined in section 5.6.1 Four ROBOT ALLIANCES.

There will be no BACKUP TEAMS during the elimination rounds.

Alliances will not be allotted any TIMEOUTS during the elimination rounds.

Live Results

Webcast Information

Brunswick Eruption will be streamed live at our webcast portal:

<http://be.raiderrobotix.org/webcast/>

Please share this link with your friends and family who will not be able to attend the event in person.

This year, we will be beta-testing the new MAR HD video streaming solution. As such, the stream will also be available on the [MAR YouTube Channel](#).

Live match results and team rankings are also linked to on the webcast portal:

Match Results: <http://be.raiderrobotix.org/matchresults>
Rankings: <http://be.raiderrobotix.org/rankings>

Match results will also be tweeted from [@BrunsEruption](#).

Brunswick Eruption Mobile Application



We have developed a web/mobile hybrid application for Brunswick Eruption. The app will be updated live with the latest match results and team rankings*. The application also includes other information such as the event schedule, team list, food menu, and pit map.

To install the app, visit be.raiderrobotix.org/mobile on your smartphone and follow the instructions provided for iPhone and Android to save it to your homescreen.

*Please note that the rankings and results recorded on the app are tracked separately from those recorded by the official field management system. If you notice a discrepancy, you may report it to the scoring table/head referee.

Awards



Food Drive Champion

FIRST teams thrive because of the support from their community. In an effort to give something back, Brunswick Eruption supports the local community by running a food drive for those in need. Contributions are made to the North Brunswick Food Bank. The team who donates the most amount of food wins this award.

Shoe Drive Champion

Team 25 has partnered with ShoeBox Recycling and will be holding a shoe drive in addition to the food drive. Teams are asked to bring used/unwanted pairs of shoes to be recycled. Any shoes will be accepted. The shoes can be dirty, just not wet or mildewed. The team that donates the most pairs of used shoes will win this Tiki!

Kumu (Mentor/Teacher) Award

The Kumu Award is given to a mentor or teacher who represents hard work, persistence and ruthless dedication. To be eligible, teams must submit an essay of 600 words or less explaining how their chosen mentor goes above and beyond the call of duty for their team. Nominations can be submitted by filling out the [designated form](#) and must be received by 11:59PM on November 6th. This award is dedicated to the late Mike Wade of NASA Goddard who tirelessly drove an FRC field around the east coast to grow the FIRST program and make off-season events possible.

Awards

Hoku (Star) Award

Students will be asked to present a “five-minute pitch” to a panel of judges. The pitch should convey the various aspects of your team, in terms of sustainability and process, across the spectrum of business organization to robot design and implementation. The team whose presentation best convinces the judges of their future success will receive a sponsorship award of \$1,000 dollars.*

* By entering this contest, you agree to the full rules and regulations for the Hoku Award available at <http://be.raiderrobotix.org/hoku-award-rules/>.

Gracious Professionalism “Mahalo” Award

Gracious Professionalism, or GP, is one of distinguishing pillars of the FIRST Robotics Competition. Dr. Woodie Flowers, who first coined the term, describes it as, “a way of doing things that encourages high-quality work, emphasizes the value of others, and respects individuals and the community.” At the start of the competition, each team in attendance will receive a GP Award nomination form in their pit. Teams will be asked to record a specific act of Gracious Professionalism performed by another team and submit the completed form to the scoring table. The winner of this award will be the team whose nomination(s) stood out to our panel of judges.

Evil Sundae Survivor

An Evil Sundae is ice cream mixed with some, shall we say, “non-traditional” ingredients that change every year. Each team attending Brunswick Eruption will nominate one team member to participate in this contest. The goal? To eat, and keep down, the sundae in the fastest time possible. Each participant is allowed to bring a spoon of their choosing to use in conquering this evil dessert—we provide the barf bags. Participation in this contest is purely at the participants’ risk and we take absolutely no responsibility for any upset stomachs!

Brunswick Eruption Finalists (x4)

This award celebrates the alliance that makes it to the final match of the competition.

Brunswick Eruption Champions (x4)

This award celebrates the alliance that wins the final match of the competition.

Big Kahuna

Raider Robotix and Brunswick Eruption are run efficiently due to our dedicated and hardworking volunteers, mentors, and parents. This award recognizes the year-round commitment of a volunteer that goes above and beyond their usual responsibilities for the team.

T-Shirt Sale

There will be a limited quantity of special edition black Brunswick Eruption 13 t-shirts for sale at the event. Shirts will be priced in the range of \$12-\$15. Make sure you purchase yours early before they sell out!

The front of the shirt features a typographic BE13 logo. The design for the back of the shirt includes a list of all of the FRC teams competing at the event.



Food & Shoe Drives

Brunswick Eruption will be collecting non-perishable food items to benefit the North Brunswick Food pantry. The drop off location for food donations will be located in the hallway outside of the main gym, near the team registration table.

Once again, Brunswick Eruption is partnering with [ShoeBox Recycling](#) to collect used pairs of shoes. Please consider donating any old/unwanted pair of shoes. They can be dirty, just not wet or mildewed. If you know that your team will be bringing a large amount of shoes to donate, we would greatly appreciate if you could email us at brunswickeruption@gmail.com and let us know so we can have an idea of how many boxes we will need to bring.

FTC Full Day Meet

Concurrent with the FRC Aerial Assist tournament occurring in the main gym, 13 FTC teams will be competing in an official qualifying meet in the new cafeteria area, located across the Commons area. The teams will be playing the new 2014-2015 game, [Cascade Effect](#).

Participating FTC Teams

391	Mighty Irish
2753	Team Overdrive
3944	Team Mercury
4301	Tigers
4936	SPARKS
5398	Robotux
5912	LBHS
6037	WAGS
6069	Pingry Robotics
7071	Enginerds
8421	RoboCubx
8591	Wit, Spit & Duct Tape
9042	Midnight Magic

Workshops

NI roboRIO Beta Test Presentation and Workshop

10:00 AM — Location TBD

Mark McLeod will be presenting the new FRC Control system. The NI roboRIO is the next generation of student robotics controllers. For the most up to date information and technical specifics, please visit the [National Instruments roboRIO webpage](#). This device is designed specifically with FIRST in mind. It's more powerful, lighter, and smaller than the previous cRio. This new controller will give teams unmatched power starting in the 2015 FRC season.

MAR District Open Forum

1:00 - 2:00 PM — MRC (Library)

The MAR Chair and members of the Board of Directors will be available during the lunch hour to provide updates and discuss any topics or concerns FRC members may have.

Housekeeping Rules

Opening Ceremonies

We politely request that all team members temporarily put down their power tools and move to the stands for the event's opening ceremonies.

A Note Regarding Mobile Devices

While we highly encourage the use of mobile devices for communication and scouting purposes throughout the event, we require that the Wi-Fi features of these devices be turned off for the duration of Brunswick Eruption to ensure they do not interfere with the field's communications.

Power Outlets

The Brunswick Eruption crew will attempt to label any power outlets that are in use by the field, webcast, or pits. Please, under any circumstances, **DO NOT** unplug any power cords you encounter in order to plug in or charge your personal cell phone/laptop/tablet, etc. as this will disrupt and delay the event for everyone. If a power outlet is needed, please use the one provided in your team's pit.

Seating

Seating is available in the bleachers located on either side of the field. As per the regular *FIRST* competition manual, section 4.41, we ask that you do not save seats and graciously accommodate any visitors looking to sit. If possible, please store any spirit items in your team's pit when not in use. Additionally, we ask that you please do not obstruct the webcast cameras.

Safety

Please wear safety glasses and close toed shoes while in the pits or on the field at all times. We take no liability for any injuries.

Food Concessions

The following food items will be available for purchase throughout the day:

Breakfast

Donuts
Bagels w/ cream cheese or butter
Muffins
Coffee, tea, orange juice, and apple juice

Lunch

Hot dogs (toppings: cheese, sauerkraut, chili)
Turkey sandwich (with or without cheese)
Nachos (toppings: cheese and/or chili)
Meatball Sub
Vegetarian options (specific menu items TBD)

Beverages

Coffee / Tea
Bottled Water
Vitamin Water
Soda (regular and diet)
Snapple
Snapple Iced Tea
Starbucks Frappuccino

Snacks

Chips
Candy
Home baked goods

Please dispose of all trash in the proper receptacles and limit the amount of food brought into the main gym area.

FRC Team List

25	Raider Robotix	North Brunswick, NJ
41	Robo Warriors	Warren, NJ
56	ROBBE	Bound Brook, NJ
75	RoboRaiders	Hillsborough, NJ
102	The Gearheads	Somerville, NJ
103	Cybersonics	Kintnersville, PA
222	Tigertrons	Tunkhannock, PA
224	The Tribe	Piscataway, NJ
271	Mechanical Marauders	Bay Shore, NY
293	SPIKE	Pennington, NJ
303	TEST Team	Bridgewater, NJ
369	High Voltage	Brooklyn, NY
371	Cyber Warriors	Staten Island, NY
375	The Robotic Plague	Staten Island, NY
422	The Mech Tech Dragons	Richmond, VA
527	Red Dragons	North Massapequa, NY
533	PSIcotics	Long Island, NY
694	StuyPulse	New York City, NY
806	Brooklyn Blacksmiths	Brooklyn, NY
1089	Team Mercury	Hightstown, NJ
1279	Cold Fusion	Somerville, NJ
1302	Team Lionheart	Sparta, NJ
1626	Falcon Robotics	Metuchen, NJ
1676	Pascack Pi-oneers	Montvale, NJ
1807	Redbird Robotics	Allentown, NJ
1923	MidKnight Inventors	Plainsboro, NJ
2458	Team Chaos	Gladstone, NJ
2495	Hamilton Honeybadgers	Hamilton, NJ
2554	WarHawks	Edison, NJ
2590	Nemesis	Robbinsville, NJ
2601	Steel Hawks	Flushing, NY
2607	Fighting RoboVikings	Warminster, PA
3142	Aperture	Newton, NJ
3340	MagneGeeks	Union City, NJ
3637	The Daleks	Flemington, NJ
4122	Ossining O-bots	Ossining, NY
4281	The Bull Dogs	Somerset, NJ
4361	Roxbotix	Succasunna, NJ
4575	Tin Mints	Morton, PA
4653	Ironmen Robotics	Ramsey, NJ
5310	Eagles Apex	East Orange, NJ

Sponsors

Raider Robotix would like to thank the following organizations and individuals for helping make Brunswick Eruption 13 happen:



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