



FRC TEAM 33

KILLER BEES

Chairman's Award Summary for 2014

Team Goals:

1. Continuous Improvement in all that we do (Robot, Team, Outreach, Sponsors, Students)
2. Expand the community awareness of STEM and FIRST
3. Sustain our team and work with other teams in technical development and gender diversity
4. Build interest in STEM with younger students and bring those students into FIRST

Purple Alliance brings coopertition to outreach

Who: Team 33 founded along with Team 1718. Other teams that participated:*1718,573,68,*910

Working with other teams to make a bigger community impact, build a common community

Two themes: STEM education and community hunger

June: Giddings Road Clean-up

July: Forgotten Harvest (pack food)

August: Baldwin Center STEM camp (bring robots, engineering challenges)

September: Kettering Kickoff field teardown

October: American House Tech Day (FRC Geek Squad)

November: Gleaner's (donate, pack food)

Getting youth interested in STEM across SE Michigan for all FRC teams - building the pipeline of FRC students

2 Girl Scout STEM Badge Workshops, FIRST demonstrations at offseason event for 250 girls and families

Partnered with FRC teams 245, 469, and Oakland University for Brownie event (JrFLL)

Partnered with FRC 469 at Junior event/All girls competition (FLL)

Started 1 Girl Scout FLL team and 14 Jr. FLL teams with partnerships with Girl Scouts of SE Michigan

Created a template published on our website for other teams to emulate

Continue our Feeder School Development - gives WannaBees STEM/FIRST experience

Jr. FLL team in elementary school, FLL and FTC in middle school, FRC in high school (K-12 program)

Marist MS and Holy Family K-8 FLL teams mentoring - 50 students and families

Marist Rookie FTC team mentoring and they were State Semifinalists - 10 students and families

Marist MS FLL team competed at regional and state championship

Mock tournament with FRC demonstration at Holy Family

Out of state partnership with FLL 33 from Oklahoma (Baking Soda Volcano Robotics) and helped them improve their robot runs and presentations through email and video chats. FLL 33 won OK State Championship and will be at 2014 World Championship due to partnership

Killer Bees work directly with WannaBees to mentor and sponsor these teams and act as role models of FIRST ideals.

Rookie and Veteran Team Assistance: We want them to get started and be sustainable and successful

Students in school Spanish programs partner with FRC 2283 to translate resources to Spanish

Killer Bee programs and templates available on our website for implementation by other teams.



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FRC 5053 - Our Lady of the Lakes / Everest Collegiate High Schools

Recruit students, advise, support, mentor in team organization, robot build, strategy and more
Very successful in their district events, the rookie team made the state championship

FRC 3538 - Avondale High School

Recruit students, advise, support, mentor in team organization and strategy

Helping others within FIRST benefits our team by raising the overall competitive standard of the league.

Assisted teams with obtaining State of Michigan section 99h FIRST grant money from the Department of Ed

Sponsorship - Providing resources for our team and others

- Student Sponsor Presentation team - students bring robots to business leaders and secure sponsorship
- Elite Fencing - company owned by team alumnus is our newest sponsor
- Alumni relationships - come back to mentor, volunteer, support, sponsor through their companies
- Project Speedbump - saved Chrysler \$80,000 on autonomous pedestrian response testing vehicle
- Budget fluctuates every year, and travel is the team's biggest expense.
- Train and advise other teams on our fundraising/sponsorship model.
- Concentrate on business skills and presentation skills

HIVE Foundation - Building the pipeline of STEM professionals for the future (and FRC mentors)

Developed by mentors, alumni, and parents to match FIRST veterans and alumni with STEM internships at companies and businesses looking to employ students with technical experience. The HIVE also promotes growth of STEM and provides resources for students in transition periods, such as college planning webinars. www.hivefoundation.org

Growth Opportunities in progress

- College applications: Successfully petitioned The Common Application (www.commonapp.org) for college bound seniors. Worked with Common Application Board of Directors to get FIRST Programs listed as an extracurricular activity, looking for more Recognition of the sport.
- OZONE: working with area grant writers and legislators to create a robotics maker space in downtown Pontiac
- Assisting FRC 2283 (international team) in school relationships to extend FIRST participation to females at their partner school.

Numbers at a Glance:

- Team is gender balanced for 4th year in a row. Competition team is 100% female.
- Each year 80% of seniors plan to pursue a STEM career; 250+ alumni in 19 years
- 100% of alumni have pursued higher education from 2009-2013
- FIRST Robotics is the largest recognized varsity activity at our high school (larger than the football team)
- The Purple Alliance assisted 600+ individuals in our community with 90+ FRC student volunteers
- Each of our 42 students fabricated and produced a part of Buzz XIX
- Our social media: 1,637 Twitter Followers, 1,333 Facebook Likes
- Website averages 100 visitors daily www.killerbees33.com
- 277 FRC teams in Michigan; 83 rookie FRC teams; 167 FRC teams within a 50 mile radius
- 39 FRC teams in Oakland County; all but one public high school has an active FRC team