

10th anniversary!

New York City **FIRST**[®]

New York City *FIRST* Mega Celebration

March 12 to 14, 2010
Jacob Javits Convention Center
New York City



FIRST Robotics Competition
Friday, March 12– Sunday, March 14
9:00am to 5:30pm



FIRST Tech Challenge Championship
Saturday, March 13
9:00am to 5:30pm



FIRST LEGO League Championship
Sunday March 14
9:30am to 3:30pm



Jr. FIRST LEGO League Exposition
Sunday, March 14
9:30am to 1:00pm



**NYC FIRST Science & Technology
Career Expo**
Saturday, March 13, 11:00am to 3:00pm
Sunday, March 14, 10:00am to 3:30pm



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Regional Directors Message

Dear friends:

Welcome to New York City's celebration of its young men and women working smart in science and technology.

Welcome also to the celebration of the 10th anniversary of New York City FIRST's work with schools and students across all five boroughs.

By joining us this weekend, you are letting thousands of young people know the importance of their achievements in science and technology. You will have a chance to observe and cheer for students competing in all four FIRST technology tournaments:

- Jr. FIRST LEGO League (children 6 to 9 years old)
- FIRST LEGO League (children 9 to 14 years old)
- FIRST Tech Challenge (high school students)
- FIRST Robotics Competition (high school students)

All FIRST programs are organized around two basic components: 1) engaging kids in the hands-on, minds-on process of technological innovation; and 2) bringing communities together in celebration of students' working smart in science and technology.

As part of FIRST teams, students have the opportunity to apply math and science knowledge, solve problems, make decisions, collaborate as part of a team, exercise leadership, and manage resources – all essential skills in any successful enterprise. In the same way that school athletes receive the adulation of their friends and fans, FIRST events celebrate the achievement of our future technologists.

The chart below summarizes the impact of FIRST participation on kids' lives. FIRST kids are more likely to attend college, major in science or engineering, participate in co-ops or internships, and engage in community service. By being with us this weekend, you are helping make this possible.

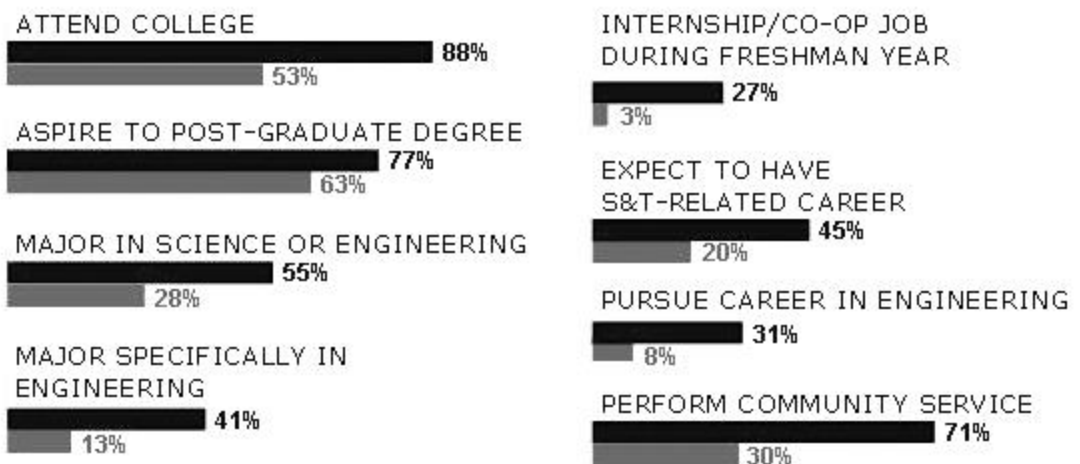
Finally, we would like to say a word of thanks to the wonderful people who have made the phenomenal 10 year growth of NYC FIRST possible. Our sponsors and benefactors are the most generous and community spirited in the nation. Our volunteers are the most compassionate people in the world. Each day working with our supporters is a reminder of what is good in the world.

With much appreciation and best regards,

Randy Schaeffer & Ana Martinez
New York City FIRST Regional Directors

IMPACT: FIRST Robotics Competition Evaluation

■ FRC ALUMNI
■ MATCHED COMPARISON GROUP



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Jr.FLL

Junior FIRST LEGO[®] League

Jr. **FIRST** LEGO League Exposition Sunday, March 14 9:30am to 1:00pm

Public Agenda, Sunday, March 14th:

8:30 - 9:00am.	Team Registration
9:00 - 9:30am.	Jr.FLL Teams Set Up their Exhibits Jr.FLL. Exposition Area
9:30 - 9:45am.	Opening Ceremonies FLL Game Area
9:45 -11:15am.	Jr.FLL Exhibits and Judging. Jr.FLL Exposition Area
11:15am-12:00pm.	Lunch Break
12:00-12:15pm.	Jr.FLL Teams Assemble in Jr.FLL Expo- sition Area
12:15-12:45pm.	Closing Ceremonies and Award Cere- mony FLL Game Area

About Jr. FIRST LEGO League:

The Jr.FIRST LEGO League (Jr.FLL) Exposition is non-competitive. Participation in the event serves as an introduction to FIRST for children. All participants and teams receive recognition and awards! The Jr.FLL Exposition is designed to bring teams together from all five boroughs of New York City as well as surrounding areas of Westchester County and Northern New Jersey. Teams interact with one another to show off their projects. Judges interact with individual teams to provide feedback and allow teams to demonstrate their understanding of the SMART MOVE theme.

FIRST LEGO League core values are the cornerstones of the Jr.FLL experience:

- We are a team.
- We do the work to find solutions with guidance from our coaches and mentors.
- We honor the spirit of friendly competition.
- What we discover is more important than what we win.
- We share our experiences with others.
- We display Gracious Professionalism in everything we do.
- We have fun.

By embracing the core values, participants learn that friendly competition and success for all are not separate goals, and that helping one another is the foundation of teamwork.

Children ages 6-9 are presented with the same theme as the FIRST LEGO League SMART MOVE Challenge. Teams are required to put together a "Show Me" poster board presentation which showcases their research and demonstrates they have understood the theme. Participating teams create a model which demonstrates their innovative solution to the challenge theme of SMART MOVE.

At the 2010 Jr. FIRST LEGO League Exposition, Jr.FLL teams will participate in the opening ceremonies along with the 80 FIRST LEGO League teams. They will also have the opportunity to observe and learn more about FIRST LEGO League and the FIRST Robotics Competition as they witness these events throughout the course of the day.

NYC Jr. FLL Coordinator:

Keith Wynn, P.S. 58, The Carroll School

Jr. FLL Judges:

Surasit Nithikasem
Haddon Fisher
Josee Holubis
Eugene Ryazanov , Bloomberg





Jr.FLL Awards:

Team Work: Presented to the team which best demonstrates cooperation and support of the FIRST Mission as well as of the overall Jr.FLL Exposition.

Team Spirit: Presented to the team which best demonstrates tremendous enthusiasm for their project and overall team or school participation.

School Spirit: Presented to the team or program which best demonstrates enthusiasm and support for Junior FIRST LEGO League activities and program in their school.

Outreach Award: Presented to the team which demonstrates the ability to showcase their project and research with members outside of their school or community.

Most Creative Presentation: Presented to the team which creates a model and "Show-Me" poster expressing creative design.

Research Award: Presented to the team which demonstrates strong understanding of gathering information for research and clearly shows what they have learned about the theme, "SMART MOVE."

Innovative Solutions: Presented to the team that creates and articulates a new or innovative solution to the problems facing their community with current or existing transportation models.

Most Original Presentation: Presented to the team whose model and show me poster represent unique approaches to sharing information.

Judge's Award: Presented to the team which the judges feel clearly demonstrates strong aspects of design, research and teamwork in their over-

all model, presentation and show me poster.

Problem Solver's Award: Presented to the team which demonstrates a strong understanding of the problems current transportation models are presenting to communities around the world.

Transportation Engineer's Award: Presented to the team which demonstrates a strong understanding of how our community needs to improve transportation of goods, services and/or people in the future.

Energy Conservation Experts: Presented to the team which presents and clearly articulates information on how their innovative solution can help prevent or reduce human contributions to climate change around the world.

Carbon Footprint Award: Presented to the team which presents and clearly articulates information on how their innovative solution will assist their community, i.e., people, governments, organizations, societies and nations in reducing their carbon footprints to reduce or prevent climate change.

Community Development Award: Presented to the team which presents a model which demonstrates innovation and understanding of how their proposed change will positively impact their community.

Overcoming Obstacles: Presented to the team which presents and clearly articulates the challenges people governments, organizations, institutions, societies and nations face when trying to make changes that might otherwise reduce or prevent climate change.

International Standards for Excellence Award: Presented to the team which presents a project that shows how their innovative solution will have a positive impact on communities outside of New York City and/or around the world.

Technology Award: Presented to the team which develops and presents a model which best incorporates new and existing technology.

LEGO Technology Award: Presented to the team which incorporates the innovative use of LEGO materials into their model.

City Hall Award: Presented to the team in which all members are clearly able to articulate and explain their research process, model and innovate solution to others without the assistance of an adult.

Class By Itself Award: Presented to the team whose Show Me Poster and Model stand out and draws in the observer through creative and/or innovative use of visual aides.

Team Name	School / Organization	Borough/City
Lego Destroyers	Rye Neck Public School	Westchester
321 Kids	P.S. 321	Brooklyn
The Moveinators	St. Claire School	Staten Island
The Shooting Stars	St. Claire School	Staten Island
The Ferry Fighters	St. Claire School	Staten Island
P.S. 57	P.S. 57	Staten Island
P.S. 57 YMCA	Cambria Center	Staten Island
Stuyvesant Robotics	Battery Park School	Manhattan
Elmsford JrFLL	Elmsford	Westchester
LEGO Leaders	P.S. 11 William T. Harris School	Manhattan
P.S. 11 Jr.FLL	P.S. 11	Manhattan
Cambria 1	Cambria Center 233	Brooklyn
Cambria 2	Cambria Center 233	Brooklyn
Super Sonics	Chelsea Prep	Manhattan
Chelsea Wrenches	Chelsea Prep	Manhattan
Rising Star Academy	RSA	Union City, NJ
Rising Star Academy	RSA	Union City, NJ
St. Claire School	St. Claire School	Staten Island



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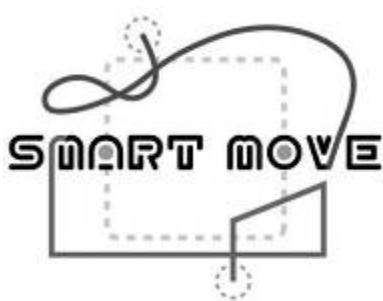


FIRST LEGO League Championship Sunday, March 14 9:30am to 3:30pm

About FIRST LEGO League:

FIRST LEGO League (FLL) is a real world engineering challenge for elementary and middle school students 9 to 14 years old. Teams of students build LEGO-based robots to complete tasks on a thematic playing surface. The teams are guided by their imaginations and their adult coaches, and through the process they learn to make positive contributions to society while discovering exciting career possibilities. As they design, build and program their robots, teams apply math and science concepts to address real-world research challenges facing today's scientists. Students develop critical thinking, team-building and presentation skills – skills that will last a lifetime.

FLL tournaments recognize students for their hard work, innovation and gracious professionalism — a way of doing things that encourages high-quality work, emphasizes the value of others, and respects individuals and the community. Participants learn that friendly competition and mutual gain are not separate goals, and that helping one another is the foundation of teamwork. And what the FLL teams accomplish is nothing short of amazing.



Public Agenda Sunday, March 14:

8:00am	FLL pits open FLL teams arrive Robot inspection begins
8:30am	Jr.FLL pits open Jr.FLL teams arrive FLL judging begins
8:50am—9:15am	Coachs' meeting
9:30am -10:00am	FLL and Jr.FLL opening ceremony
10:10am – 12:10pm	FLL competitive matches
12:10pm – 12:50pm	FLL lunch Jr.FLL award ceremony
12:50pm – 3:30pm	FLL competitive matches
3:30pm – 4:00pm	FLL award ceremony

About the Game:

Can FIRST LEGO League teams transform the way we look at transportation? The key to the "SMART MOVE" Challenge is accessing people, places, goods and services in the safest, most efficient way possible. In this journey, teams will consider many modes of transportation beyond their daily routine and streamline their options by making smart moves.

Smart Move is played on a 93"x45" table consisting of a field mat with mission models arranged on top.

The Game is to be played by an "autonomous" robot. That means teams are not supposed to influence their robots while performing tasks on the playing field.

A mission is defined as a result or action worth points. The missions and the points assigned to each are listed below.

Each team decides the order in which it wants to try missions, and teams don't have to try them all. Teams are allowed to re-try missions, but often it's not possible because of the three-minute duration of each match..

But most teams need to retrieve their robot from the playing field once or more during the match. But doing so always forces a re-start from the base, and sometimes, there's a penalty.

Scoring:

Mission	Points
Target Spot	25 points
Yellow Bridge Deck	20 points
Vehicle Sharing	25 points
Access Markers	25 points
Loops	10 points
Warning Beacons	10 points
Sensor Walls (Avoidance)	10 points (max 40)
Sensor Walls (Impact)	40 points
Vehicle Impact Test	20 points
Single Passenger Restraint Test	15 points
Multiple Passenger Safety Test	10 points

FLL Awards:

Champion's Award (1st – 4th Places) - First place winner is eligible for the World Festival in Atlanta. The most prestigious award that any team can win. It celebrates the ultimate success of the FIRST mission and FLL values. It measures how the team members inspire and motivate others about the excitement of science and technology, solve problems, and demonstrate respect and gracious professionalism. To be considered for the Champion's Award, teams must perform well in both technical and team presentation categories, which are equally weighted. The weight value for each of the categories is as follows: Technical (Robot Design 25%, Robot Performance 25%) and Team Presentation (Project Presentation 25%, Teamwork 25%).

Robot Design Award (1st – 6th Places) - Judges look for teams whose work stands out for innovation, dependability, or both. To assess innovation, the judges watch the robots work, looking for things that make them say "Wow!" They interview team members to reveal the less obvious unique and inventive ideas. To assess dependability, the judges interview the teams to learn what solid principles and best practices were used to reduce variability and errors, with preference to robots that are best able to "back it up" throughout the matches.

Robot Performance Award (1st – 6th Places) - This award goes to the team whose robot achieves the best score on the competition field or in the elimination round. At NY FLL, no elimination round is held, so the team with the highest score from a single round receives the trophy.

Project Award (1st – 6th Places) - FLL presents the Project Award (formerly the Research Presentation Award) to the team whose quality research, innovative solutions, and creative presentation best reflect an in-depth understanding of the various scientific disciplines and issues involved with the Challenge project.

Teamwork Award (1st – 6th Places) - Teamwork is critical to succeed in FIRST LEGO League and is the key ingredient in any team effort. FLL presents this award to the team that best demonstrates extraordinary enthusiasm, an exceptional partnership, and the practice of FLL values.

Against All Odds or Perseverance Award - This award goes to the team that improvises and overcomes a difficult situation while still making a respectable showing, and with an attitude that shows, "We can overcome incredible odds if we never give up, no matter what!"

Team Spirit Award - Some teams really know how to have fun. This award goes to the team that most enthusiastically demonstrates a commitment to getting others to see how accessible, fun, and rewarding science and technology can be, especially when you are part of a great team.

Judges' Award - During the course of competition the judges may encounter a team whose unique efforts, performance, or dynamics merit recognition. Some teams have a story that sets them apart in a unique way. Sometimes a team is so close to winning an award that the judges choose to give special recognition to the team. This award gives the judges the freedom to recognize the most remarkable teams for which a standard award does not exist.

Volunteer of the Year Award - This award honors the dedication of the volunteer(s) whose assistance and devotion helps change the lives of children in a positive way. FLL relies on volunteers for every aspect of the program. Some volunteers do truly extraordinary things for the kids.



FLL Judges:

Name	Affiliation
Greg Koulloumos Head Judge	Con Edison
Meena Ganesh Susan Hermon Lawrenberg Hanson Alex Ubieta Kai Leong Marina Khasina Ana Jane Eufemio-Yu Emily Parziale Medhavi Sahasrabudhe Kevin Chang Dwight Edwards Indhira sepulveda Joan Correia Elizabeth Vilchis Sudhendu Das Jackson Koo Anya Muniz Irfaan Ally Miguel Cabrera Josh Walfish Jason Loy Daniel Valle King-Woo Cheung Polly Lo David Shih David Katz Alex DeFeo Arthur Ward V Guruprasad Vicky Pugin Corbet Beder Nelson Yip Matthew Devoti Diana Ng Wailoon Wong Jaspreet Parmar Jose Garcia Wendy Lovetro William Dilgard Naveen Michaudagrawal	Rutgers University Polytechnic Institute of NYU Credit Suisse Long Island University NYSE Euronext St. Claire's School BNP Paribas Con Edison Bloomberg Verizon City College of New York Credit Suisse Con Edison Con Edison Con Edison Credit Suisse Con Edison Creston Electronics Con Edison Con Edison Credit Suisse Bloomberg Terex Corporate Vision Education Con Edison Con Edison MIT Alumni Club Polytechnic Institute of NYU Bloomberg Bloomberg





FLL Teams:

Team#	Team Name	School/Organization
Bronx		
77	Robowaves	PS/IS 123 X
291	Climate Crusaders	Pablo Casals MS 181x
968	CS66 B.R.A.T.S	CS 66 X
1670	76ers	PS 76X and The Bennington School
2562	Ridder Kids	IS 98 X Herman Ridder
3074	Henry Hudson Lego Explorers	IS 125 X Henry Hudson
4161	Architecti	Bronx Latin MS
6498	The Boogie Down Bots	Archimedes Academy for Math, Science & Technology
7721	RoboBeez	PS 103 x
7722	Robo Stingerz	PS 103 x
7752	XLR8RS	The Urban Institute of Mathematics
8197	Storm Throopers	PS 121 X
9320	Robotronics	PS 153 x
2637	MS302 Tech Squad	MS 302 X
Brooklyn		
111	Nerd Herd	St. Edmund Elementary School
316	Area 51	MS 51K
462	PS 94 Robotics	PS 94 K
471	PS 94 Knights	PS 94 K
528	Genesis at Xaverian	Genesis at Xaverian
1381	Bedford Bots	Bedford Academy
2012	Blood, Sweat, and Gears!	IS 318
2223	Team 1	PS 58 The Carroll School
2488	Bob 2	Packer Collegiate Inst.
2677	Team Cobra	Acad. for College Preparation & Career Explor.
2776	The Crispus Attucks' Panthers	PS 21K Crispus Attucks School
2875	8-bots	PS 8 K
3151	Lego My Eggo	Sunset Park Prep MS 821K
5275	Home Schoolers	Team 5275
5973	Mission 11	PS 11K Purvis J Behan School
6505	YSADE Boogie Bots	PS 636 K Young Scholars' Academy for Discovery
6513	Masterminds	MS 88 K
6539	The Golden Legolites	PS 233K Langston Hughes
6754	Falcon Robotic All-Stars	MS 113 Ronald Edmonds Learning Center
7601	Warrior Bots	Benjamin Banneker Academy K
8451	PS 399 Gear Hawks	PS 399 K Stanley Eugene Clarke
9817	Nano Knytes/IS318	IS 318
9846	Bob 4	Packer Collegiate Inst.
Manhattan		
1417	Duallock Destroyers	Dalton
2653	The Little Dragons	Trevor Day School
3431	NXT Angels	Dalton
3432	Roaring Robots	Dalton
3433	District 89	Dalton
3895	Yipbotics	Think Robot, LLC
6244	The Inside Bots	The Gateway School
6362	Dwight School Robotics	Dwight School
7717	Little Warriors of EHTP	East Harlem Tutorial
8653	LREI Knights	LREI Little Red School House & Elizabeth Irwin HS
8654	LREI Squires	LREI Little Red School House & Elizabeth Irwin HS
9031	Anderson Dragons	The Anderson School PS 334M
9057	Cougars	Manhattan Youth @IS 289 M
9498	Robotransfusion	PS/MS 108 Angelo Del Toro
9587	Dutchman	Dutchman
10204	FDA LEGO Raidaz	Frederick Douglass Academy

Team list continued on next page.

FLL Teams:

(continued from previous page)

Queens

344	Mission Masters 2	PS 148Q
733	Boggie Bot	MS 67Q
876	Mindstorm Mechanics	Forest Hills Team
1732	Cambria Warbots	Cambria Center
2280	TopGearz	IS 119 Q
2283	SuperBotz	IS 119 Q
2320	Mr. Roboto	IS 125 Q
2382	Ryan Lions	MS 216Q George Ryan
3241	Zwicker	PS 128Q Juniper Valley
3348	RA Tech Titans	Resurrection Ascension
3644	Bleeker Techies	Edward Bleeker JHS 185
3734	Roboneers	The Garden School
9325	Robo Squad	Forest Hills Team
9370	LAMChops Old Schoolers	Louis Armstrong IS 227 Q
9514	Planetary Forces	Planetary Forces

Staten Island

67	Blast Bots	IS 24 SI
1496	Bulldogs	IS 72 SI
1851	Tech Knows	Staten Island Tech HS
2497	Drefus Seekers	IS 49 SI
2823	Micro Bots	Coen
2831	Lady Robo-Panthers	IS 75 SI
3396	PS 57 Robotics Team	PS 57 SI
4803	Transformers 1	St. Clare School
4814	Transformers 1	St. Clare School
4825	Transformers 1	St. Clare School
8689	Lego Leaders	St. John's Lutheran School
8693	Parks Wizards	NYC Parks Dept. Cromwell Center



FLL Planning Committee

Mark Sharfshteyn, Chairperson NYC FLL Planning Committee	Credit-Suisse
Andy Woo	Con Edison
Bernie DiCristofalo	NYC Dept. of Education
Catherine Kunicki	Stuyvesant High School FRC
Corey Beder	Vision Education
Danya Shneyer	Vista Americorps
Deric Borrero	NYC Dept. of Education
Elizabeth Almonte	American Express
Elizabeth Vilchis	CCNY
Evan Wienberg	NYC Dept. of Education
Giri Sonti	Emblem Health
Greg Koumoullous	Con Edison
Jose Munoz	NYSE Euronext
Keith Wynne	NYC Dept. of Education
Kristian Breton	NYC DYCD
Michael Koumoullous	NYC Dept. of Education
Miguel Cabrera	Con Edison
Noel Kriftcher	Polytechnic Institute of NYU
Norm Scott	NYC Dept. of Education, retired
Richard Wong	NYSE Euronext
Robert Juchnicki	Stuyvesant High School FRC
Sarah Ketani	Stuyvesant High School FRC
Suman Sabastin	NYC Dept. of Education
Susan Hermon	Polytechnic Institute of NYU
Veryl Greene	NYC Dept. of Education

Chairman's Message:

Thank you for joining us as we celebrate the achievements and accomplishments of all NYC FIRST LEGO League teams who have taken on the Smart Move Challenge during the 2009-2010 competition season.

This year, over 220 teams from around NYC registered to take on the challenge of learning about transportation and how it affects our everyday lives. During this season, qualifying events were held in all 5 boroughs, the results of which qualified the 80 teams which are attending today's Championship tournament. Today we will also be hosting 20 Jr. FIRST LEGO League teams who are having their Smart Move Expo.

As we look forward to the 2011 season, our goal will be to continue strengthening the support for FIRST LEGO League in each borough in order to bring the program to as many NYC kids as possible.

I would like to personally thank all of the teachers, coaches, parents, mentors, administrators and NYC FIRST LEGO League sponsors and supporters for their dedication in bringing this program to school children around NYC.

I would also like to thank all of the members of the NYC FIRST LEGO League Planning Committee for their continued support and countless hours of work to make 2010 our most successful season yet.

Mark Sharfshteyn

**Chairperson,
NYC FIRST LEGO League Planning Committee**



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FIRST Tech Challenge Championship

Saturday, March 13

9:00am to 5:30pm

About FIRST Tech Challenge:

FIRST Tech Challenge (FTC) is a challenging mid-level robotics competition designed for high-school students who want a hands-on learning experience to develop and hone their skills and abilities in science, technology, engineering, and math. FTC was designed for teams who want the same real-world challenges as the FIRST Robotics Competition (FRC); but who require a more affordable build kit. The FIRST Tech Challenge is an ideal next step for students moving from FIRST LEGO League (FLL) or as preparation for participating in the FIRST Robotics Competition (FRC).

FTC tournaments recognize students for their hard work, innovation and gracious professionalism — a way of doing things that encourages high-quality work, emphasizes the value of others, and respects individuals and the community.

Taking a hands-on, team-approach, students develop their knowledge and skills in science, technology, engineering, and mathematics. Students drive the creation of teams while mentors and volunteers lend support. By doing, students develop self-confidence and learn to effectively communicate, collaborate, and work as a team.

Public Agenda: Sunday, March 14th

8:00 - 9:00am	Team Check-In, Inspections, Practice Matches
9:00 - 9:30am	Opening Ceremony
9:30am - 12:30pm	Qualifying Matches
12:30 - 1:30pm	Alliance Selection / Lunch Break
1:30 - 2:30pm	Elimination Rounds
2:30 - 3:00 pm	Division Finals
3:00 – 4:00 pm	Championship Finals
4:00 – 5:00 pm	Awards Presentation and Closing Ceremony

About the Game:

HotShot! is played on a 12'x12' square field with two off-field scoring goals as shown on the diagram above. Two alliances – one “red” and one “blue” – composed of two teams each, compete in matches consisting of a 30-second autonomous period followed by a two-minute driver-controlled period.

The object of the game is to score more points than your opponent’s alliance. Points are earned by releasing the balls from the Ball Chutes in autonomous mode, by shooting balls into the goals in the center of the field (high or low) in both autonomous and driver-controlled periods, and shooting balls into the off-field goals during the last 30 seconds of the match. Balls scored in the autonomous period will be counted once at the end of the autonomous period and again at the end of the driver-controlled period, if they remain in the goal.

There are a total of seventy-six (76), 2.875-inch diameter, plastic balls available at the start of the match. Eight balls are given to each alliance to pre-load onto their robots in any way they choose. Sixty balls are loaded into ball chutes at the corners of the field – fifteen per chute. One Bonus Ball is available to each team, but may only be introduced onto the field in the last thirty seconds of the match. Each robot will start on the field in assigned starting positions and will have to trigger a mechanism to release the balls located in the ball chutes.

The center scoring area has two goals – a low goal and a high goal that spins around. The low goal is the base for the high goal and is divided into a red side and a blue side. The high goal is a basket-like structure with a 9-inch diameter hole into which balls are scored. Each basket is identified by a red or blue goal face. The bottom of the hole is 30 inches from the field mat and there is an Infrared beacon and a 3-inch color panel below the hole that can be used by the robots for targeting.

The off-field scoring goals are two baskets that measure 15”w x 23”d x 15”h and are placed 4 feet away from the front side of the playing field. Balls can be shot into these goals only in the last 30 seconds of the match.

The last 30 seconds of the match comprises the End Game. During the End Game, teams can shoot balls into the off-field goals. Team Coaches may introduce the 4 yellow Bonus Balls into the field by placing them into the Ball Chutes. Robots may then try to score these special balls into any of the three goals to double the point value of all the balls in that particular goal.

Scoring

Opening ball chute during autonomous	5 or 10 points based on location
Balls in high goal	5 points
Balls in low goal	1 points
Balls in off-field goal	10 points
Yellow bonus balls	Doubles point total in the goal (yellow ball has no point value itself)



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FTC Awards:

Inspire Award - The Inspire Award is the most prestigious FTC award, and is given to the team that truly embodied the “challenge” of the FTC program. The team that receives this award is chosen by the judges as having best represented a role model FIRST Tech Challenge Team. They are a top contender for all other judging categories and are a strong competitor on the field. The Inspire Award Winner is an inspiration to other teams, acting with gracious professionalism both on and off the playing field. This team understands how to communicate their experiences and knowledge to other teams, sponsors, and the judges.

Connect Award - This award is given to the team that most connected with their local community and the engineering community. A true FIRST team is more than a sum of its parts, and recognizes that their schools and communities play an essential part to their success. The recipient of this award is recognized for helping the community understand FIRST, the FIRST Tech Challenge, and the team itself. The team that wins this award is aggressively seeking engineers and exploring the opportunities available in the world of engineering, science and technology. In addition, this team has a clear fundraising goal and plan to achieve that goal.

PTC Design Award - This award recognizes design elements of the robot that are both functional and aesthetic. All successful robots have innovative design aspects; however, the Design Award is presented to teams that incorporate industrial design elements into their solution. These design elements could simplify the robot’s appearance by giving it a clean look, be decorative in nature, or otherwise express the creativity of the team. The winning design should not compromise the practical operation of the robots but compliment its purpose.

Innovate Award - This award celebrates a team that not only thinks outside the box, but also has the ingenuity and inventiveness to make their designs come to life. This award is given to the team that has the most innovative and creative robot design solution to any or all specific field elements or components in the FIRST Tech Challenge game. Elements of this award include elegant design, robustness, and “out of the box” thinking related to design. This award may address the design of the whole robot, or of a sub-assembly attached to the robot.

Motivate Award - This award celebrates the team that exemplifies the essence of the FIRST Tech Challenge competition through team spirit and enthusiasm. They show their spirit through costumes and fun outfits, a team cheer or outstanding spirit. This team has also made a collective effort to make FIRST known throughout their school and community.

Think Award - This award is given to the team that best reflects the “journey” the team took as they experienced the engineering design process during the build season. The Engineering Notebook is the key reference for judges to help identify the most deserving team. The team’s Engineering Notebook should focus on the design and build stage of the team’s robot. Journal entries of interest to judges for this award will include those describing the steps, brainstorming, designs, re-designs, successes, and those “interesting moments” when things weren’t going as planned.



NYC FIRST Tech Challenge Planning Committee:

Len Rerek, chairperson NYC FTC Planning Committee	Specialty Crafters Fine Woodworking
Tom Smolka	St. John's Lutheran School
Tim Cooper	Friends Seminary
Bruce Rajswasser	Automotive High School
Josh Walfish	Credit Suisse Securities
Anita Louis	MTA NYC Transit
Andy Zhang	NYC College of Technology
Susan Hermon	Polytechnic Institute of NYU
Danya Shneyer	New York City FIRST, Americorp VISTA
Janet Caldwell	Truman High School
Bernice Houle	Pace University
Rick Kline	Pace University
Rob Quatrone	Columbia University
Joe Castillo	Truman High School
Chris Dimauro	Polytechnic Institute of NYU

FTC Judges:

Josh Walfish	Credit Suisse Securities
Rahul Agarwal	Risk Management Solutions
Douglas Wong	US Army Research & Development Eng. Center
Ryan Micallef	Kirkland & Ellis LLP
Nancy Ortiz	Faber, Coe & Gregg, Inc.
Stacey Weaver	NYC Dept. of Education
Thomas Lanzisero	Underwriters Laboratories, Inc.
March Chadwick	M.Arch Architects;
Jenn Hou –	Georgia Tech Alumni '04
June Jee	Verizon
Amy Jeffries	JPMorgan Chase
Dave Spatz	Jertex Network Solutions
Peter Wendling	STSM -HE Power
Maria Fuentes	Time Warner Cable
Alex DeFeo	Credit Suisse
Newton Defaria	National Instruments
Jason Ganetsky	



FTC Teams:

#	Team Name	School / Organization	City	St.
18	Techno Chix	GSHH	Pleasantville	NY
28	Green Meadow PolyGnomes	Green Meadow Waldorf School	Chestnut Ridge	NY
87	Madwad Robots	Madrid Waddington	Madrid	NY
123	Syosset	Syosset High School	Syosset	NY
199	Overclocked Robotics	Corning Inc	Corning	NY
207	critical mass	Dwight-Englewood School	Englewood	NJ
310	Stuyvesant	Stuyvesant High School	New York	NY
479	Stuy Fission and Stuy Fusion	Stuyvesant High School	New York	NY
530	Elwood Knights	Elwood-John H. Glenn HS	East Northport	NY
642	Hybrids	Harry S Truman HS	Bronx	NY
1211	Robotnics	Automotive H.S.	Brooklyn	NY
2864	St. Clare's Bounty Hunters	St. Clare's School	Staten Island	NY
2865	St. Clare's Storm Troopers	St. Clare's School	Staten Island	NY
3006	Patriots	Francis Lewis HS	Fresh Meadows	NY
3007	Robotic Rams	Carmel High School	Carmel	NY
3019	HAL	Massapequa High School	Massapequa	NY
3031	RoboHawks	CTEA	Queens	NY
3094	Techno Tigers	Linden High School Academy	Linden	NJ
3152	robo-owls-1	Friends Seminary	New York	NY
3244	Bulldogs	Washington Irving High School	New York	NY
3331	Robo Fighters	St. John's Lutheran	Staten Island	NY
3332	Gearz@War	St. John's Lutheran	Staten Island	NY
3353	Spartans	John Adams HS	Ozone Park	NY
3356	Economous	Roosevelt HS	Yonkers	NY
3357	Roosevelt HS	Roosevelt HS	Yonkers	NY
3371	Botley Crue	Midwood HS	Brooklyn	NY
3415	Lancers	Livingston High School	Livingston	NJ
3416	Kangarobots	Boys and Girls High School	Brooklyn	NY
3419	B-BOTS	Benjamin Banneker Academy	Brooklyn	NY
3455	Bedford Bots	Bedford Academy HS	Brooklyn	NY
3540	RoboBoogie	Hewlett High School	Hewlett	NY
3541	robo-owls-2	Friends Seminary	New York	NY
3582	Mission Possible	Massapequa High School	Massapequa	NY
3617	KIPP	KIPP College Prep HS	New York	NY
3744	devEl	LREI	New York	NY
3867	Port Jeff Royals	Port Jefferson High School	Port Jefferson	NY
3876	Adventure Club	Saunders Trades & Technical HS	Yonkers	NY
3877	Elite	Saunders Trades Technical HS	Yonkers	NY
3896	itava	It Takes A Village Academy	Brooklyn	NY
3915	Liberty HS	Liberty High School	New York	NY
3920	Pirates	George Westinghouse High School	Brooklyn	NY
3921	Team P.I.M.P. Bot	Humanities Preparatory Academy	New York	NY
3922	modbot	Humanities Preparatory Academy	New York	NY
3929	Cthulhu	Humanities Preparatory Academy	New York	NY
3950	Suffern Syborgs 1	Suffern HS	Suffern	NY
3951	Suffern Syborgs 2	Suffern HS	Suffern	NY
3981	Gold Griffins	Jamaica College/JCOBA-NY	Bronx	NY
4017	Sewanhaka	Sewanhaka High School	Floral Park	NY

Pre-Season Events and Workshops:

During the course of the year, the New York City FIRST Tech Challenge Planning Committee offered a number of workshops and scrimmages to help teams get ready for today's big competition:



October 2, 2009	Recruitment Information Session Polytechnic Institute of NYU
October 9, 2009	FTC "Kick Off", Pace University (Pleasantville Campus)
October 24, 2009	NYC FTC "Kick-Off" Polytechnic Institute of NYU
November 21, 2009	Team Workshop NYC College of Technology
December 6, 2009	Team Workshop Pace University (Pleasantville Campus)
January 16, 2010	Team Scrimmage/Workshop Team 18 Techno Chix (Girl Scouts Heart of the Hudson)
January 23, 2010	Team Scrimmage/Workshop Truman High School
February 20, 2010	Team Scrimmage/Workshop Polytechnic Institute of NYU



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FIRST Robotics Competition Friday, March 12- Sunday, March 14 9:00am to 5:30pm

Public Agenda, March 12-14:

Friday, March 12

7:45am	3 team reps to uncrate
8:30am	Pits and machine shop open
8:30am – 12:00pm	Registration and inspection
10:00am-12:00pm	Practice rounds
12:00pm – 1:00pm	Lunch
1:00pm – 4:30pm	Practics rounds
8:00pm	Pits and machine shop close

Saturday, March 13

8:00am	Pits and machine shop open
9:00am – 9:30am	Opening ceremony
9:30am – 12:30pm	Seeding matches
12:30pm – 1:30pm	Lunch
1:30pm – 4:30pm	Seeding matches
4:45pm – 5:30pm	Awards ceremony
7:00pm	Pits and machine shop close

Sunday, March 14

8:00am	Pits and machine shop open
9:00am – 9:30am	Opening ceremony
9:30am - 12:15pm	Seeding matches
12:15pm – 12:30pm	Alliance selections
12:30pm – 1:30pm	Lunch
1:30pm – 4:30pm	Final rounds
4:45pm – 5:30pm	Award ceremony
6:30pm	Pits close

About the FIRST Robotics Competition:

FIRST Robotics Competition (FRC), “the varsity sport for the mind,” combines the excitement of sports with the rigors of science and technology. Within the constraints of competition rules, limited resources and demanding timelines, teams consisting of 25 or more high school students design, build and program their robotic competitors. A successful FRC team embodies all the characteristics of any successful technological enterprise. Teams are challenged to apply math and science knowledge, solve problems, make decisions, communicate complex ideas, manage resources, raise funds, design a team “brand,” collaborate and exercise leadership. It’s as close to “real-world engineering” as a student can get. Volunteer professional mentors lend their time as well as technical and entrepreneurial expertise guiding teams throughout the six-week build season and FIRST’s own version of “March Madness”.

About the FRC Game:

“Breakaway!” - Two alliances of three teams each compete on a 27’ x 54’ field with bumps and tunnels attempting to earn points by collecting soccer balls in their goals. Additional bonus points are earned for each robot not touching the field at the end of the match.

Rules: Robots may not possess more than one ball at a time, but they may herd and kick multiple balls at a time. Balls must remain in contact with the floor while in the robots’ possession. Alliances must return scored balls to the field quickly. Only one robot at a time is permitted to play defense in front of the opponent’s goals.

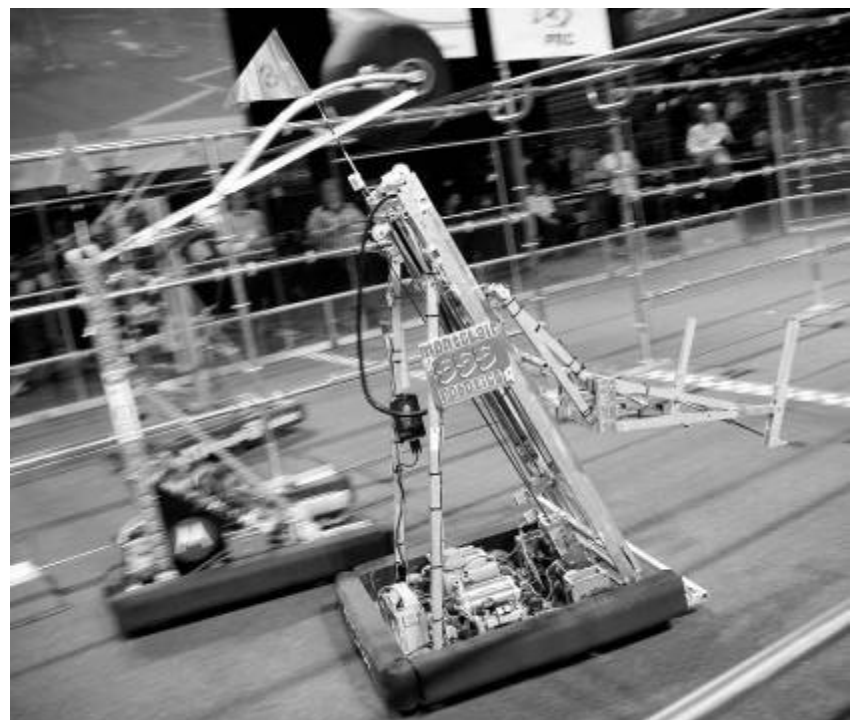
Robots: Dimensions at the start of match may not exceed 28” x 38” x 60”. However, during the last 20 seconds of the match, robot dimensions may not exceed 7’ in diameter or 90” in height. A robot may not weigh more than 120 lbs. , excluding batteries and bumpers.

Each Match:

Phase	Duration	Play
Autonomous	15 seconds	Robots attempt to score with soccer balls
Teleoperated	2 minutes	Human players help robots score with soccer balls
Finale	20 seconds	Robots attempt to hang above the field

Scoring:

Ball in goal	1 point
Robot hanging on tower	2 points
Robot hanging on a robot hanging on a tower	3 points



FIRST Robotics Competition Awards:

Regional Chairman's Award - FIRST's most prestigious award, it honors the team that best represents the purpose and goals of FIRST. The award helps keep the focus of the FIRST Robotics Competition on the goal of inspiring greater levels of respect and honor for science and technology.

Engineering Inspiration Award - Celebrates outstanding success in advancing respect and appreciation for engineering within a team's school and community.

Woodie Flowers Award - The Woodie Flowers Award is presented to an outstanding engineer or teacher participating in the robotics competition who best demonstrates excellence in teaching science, math, and creative design.

Regional Winners - This award celebrates alliance of teams that wins the competition.

Regional Finalists - This award celebrates the team alliance that makes it to the final match of the competition.

Coopertition™ Award - The Coopertition™ Award celebrates the team that best demonstrates the ability to help their opponents compete.

Creativity Award sponsored by Xerox - Celebrates creativity in design, use of component, or strategy of play.

Engineering Excellence Award sponsored by Delphi - Celebrates an elegant and advantageous machine feature.

Engineering Inspiration Award - This award celebrates a team's outstanding success in advancing respect and appreciation for engineering and engineers, both within their school as well as their community.

Entrepreneurship Award - Celebrates the entrepreneurial spirit by recognizing a team that has developed the framework for a comprehensive business plan to scope, manage, and achieve team objectives.

Excellence in Design Award - This award honors excellence in design development, documentation, communication, and presentation.

Gracious Professionalism™ Award - Celebrates outstanding sportsmanship and gracious professionalism in the heat of competition.

Highest Rookie Seed Award - Celebrates the highest-seeded rookie team at the conclusion of the qualifying rounds.

Imagery Award in memory of Jack Kamen - Celebrates attractiveness in engineering and outstanding visual aesthetic integration of machine and team appearance.

Industrial Design Award - Celebrates form and function in an efficiently designed machine that effectively achieves the game challenge.

Industrial Safety Award - Celebrates the team that uses innovative ways to eliminate or protect against hazards.

Innovation in Control Award - Celebrates an innovative control system or application of control components to provide unique machine functions.

Judges' Award - During the competition the judges may decide a team's unique efforts, performance, or dynamics merit recognition.

Quality Award sponsored by Motorola - Celebrates machine robustness in concept and fabrication.

Rookie All-Star Award - Celebrates the rookie team exemplifying a young but strong partnership effort, as well as implementing the mission of FIRST to inspire students to learn more about science and technology.

Rookie Inspiration Award - Celebrates a rookie team for outstanding effort as a FIRST team in community outreach and recruiting students to engineering.

Team Spirit Award sponsored by Chrysler - Celebrates extraordinary enthusiasm and spirit through exceptional partnership and teamwork.

Website Award - Recognizes excellence in student-designed, built, and managed FIRST team websites.

FIRST Dean's List Finalist Award - Two students will be chosen at each regional event based on a submitted essay to be FIRST Dean's List Finalists. Students who earn FIRST Dean's List Award status will not only be great examples of student leaders who have led their teams and communities to increased awareness for FIRST and its mission, they will continue on, post-award, as great leaders of FIRST's ever growing student alumni.

NYC FIRST Robotics Competition Planning Committee:

Cherrie Fleisher-Strauss
NYC FRC Planning Chair

JPMorgan Chase & Co.

Dora Maria Abreu
Elizabeth Almonte
Jeremy Berman
Kapil Bolisetti
Kris Breton

Credit Suisse
American Express
DEZ Multi Media
Bloomberg
NYC DYCD
Credit Suisse

Dean Burton
Mike Conrad
Patricia Daly
Bernie DiCristofalo
J.Sara Dworkin
Patrice English-Young
Daisy Fong

NYC DOE
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John Adams HS
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Jeannie Hornung
Keith Hughes
Catherine Kunicki
Andrew Luft

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Chris Rodriguez
Randy Schaeffer
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Danya Shneyer
AnneMarie Staley
Carl Superina
Evan Weinberg
Elizabeth Williams
Pamela Wong
Richard Wong

Braemer Energy Ventures
Goldman Sachs
NYSE
Con Edison
Apollo Restaurant

Andy Woo
Nancy Yabroudi

FRC Judges:

Ceci Neumann

Judge Advisor

Abe Kassir

Novartis Pharmaceuticals

Anthony Iarriccio

Novartis Pharmaceuticals

Augusta Sanfilippo

Credit Suisse

Carline Bennett

Children for Children

Connie Crawford

The Louis Berger Group

Daniel Posner

Underwriters Laboratories

Dennis Pietrocoloa

Port Authority of NY & NJ

Don Talka

Underwriters Laboratories

Dora Maria Abreu

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Eric Rothenberg

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Gerard Muldoon

Goldman Sachs

Irina Farkash

Port Authority of NY & NJ

Jacqueline McCarthy

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John R. Sowa, Jr.

Boehringer Ingelheim

Kevin Bynum

Credit Suisse

Lynn Little

Credit Suisse

Marcio Noguchi

Bloomberg

Martin Volerich

Netherlands American Community Trust

OJ Anderson

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Phyllis White-Thorne

Johnson & Johnson

Pavan Ketty

Underwriters Laboratories

Rafael Delgado

Westchester Community College

Ralph Draper

Con Edison

Richard Martin

GE

Ted Nygreen

Wilton Cedeno

Yesenia Herarte

FIRST Robotics Teams Competing this Weekend:

Team #	Team Name	School	City	State
181	Birds Of Prey	Hartford Public Schools	Hartford	CT
263	MERG	Sachem Central School District	Lake Ronkonkoma	NY
271	Mechanical Marauders	Bay Shore High School	Bay Shore	NY
329	Raiders	Patchogue-Medford High School	Medford	NY
333	MEGALODONS	John Dewey H S	Brooklyn	NY
334	TechKnights	Brooklyn Tech. H.S.	Brooklyn	NY
335	Skillz Tech Gear Botz	Science Skills Center HS	Brooklyn	NY
341	Miss Daisy	Wissahickon High School	Ambler	PA
354	G-House Pirates	George Westinghouse High School	Brooklyn	NY
369	High Voltage	William E. Grady Tech. High School	Brooklyn	NY
371	Cyber Warriors	Curtis High School	Staten Island	NY
375	Robotic Plague	Staten Island Technical High School	Staten Island	NY
380	G-FORCE	Samuel Gompers High School	Bronx	NY
395	2 TrainRobotics	Morris High School Campus	Bronx	NY
421	The Warriors	Alfred E. Smith H.S.	Bronx	NY
522	ROBO WIZARDS	Mckee Vocational High School	Staten Island	NY
527	Plainedge Red Dragons	Plainedge High School Red Dragons	North Massapequa	NY
555	Montclair Robotics	Montclair Board of Education	Montclair	NJ
640	Robo Elite	Thomas A. Edison CTE High School	Jamaica	NY
694	StuyPulse	Stuyvesant High School	New York	NY
743	Technobots	Evander Childs Campus & HS of Computers and Technology	Bronx	NY
759	Systemetric	Hills Road Sixth Form College	Cambridge	Great Britain
806	The Brooklyn Blacksmiths	Xaverian High School	Brooklyn	NY
896	Blue Steel	Central High School	Newark	NJ
1027	Mechatronic Maniacs	West Springfield High School	West Springfield	MA
1155	SciBorgs	The Bronx High School of Science	Bronx	NY
1156	Under Control	Marista Pio XII High School	Novo Hamburgo	Brazil
1230	The Lehman Lionics	Herbert H. Lehman High School	Bronx	NY
1302	Revolution Robotics	Pope John XXIII Regional High School	Sparta	NJ
1340	Adams Robotics	John Adams High School	Queens	NY
1366	Roughriders	West Side High School	Newark	NJ
1396	Tottenville Pyrobots	Tottenville High School	Staten Island	NY
1403	Cougar Robotics	Montgomery High School	Skillman	NJ
1600	JeffTech	Thomas Jefferson High School Campus & High School For Civil Rights & FDNY High School For Fire & Life Safety	Brooklyn	NY
1617	The Mighty Bulldogs	Malcolm X Shabazz High School	Newark	NJ
1635	TECHNOTICS	Newtown High School	Elmhurst	NY
1660	Harlem Knights	The Frederick Douglass Academy	New York	NY
1796	ROBOTIGERS	Queens Vocational and Technical HS	Long Island City	NY
1862	Red Raiders	Cliffside Park High School	Cliffside Park	NJ
1880	East Harlem Warriors	Central Park East High School	New York	NY
1989	Viking Robotics	Vernon Township High School	Vernon Township	NJ
2070	Ridgefield Robotics	Ridgefield Memorial High School	Ridgefield	NJ
2203	Cyber-Eagles	The Eagle Academy for Young Men	Bronx	NY
2205	Montfort Juggernauts	The Montfort Academy	Katonah	NY
2265	Fe Maidens	Bronx High School of Science	Bronx	NY
2285	Knights	Irvington Blue Knights 4-H	Irvington	NJ
2344	The Saunders Droid Factory	Saunders Trades and Technical High School	Yonkers	NY
2554	The War Hawks	John P Stevens High School	Edison	NJ
2573	Mustang	Amity High School	Brooklyn	NY
2579	LIC Robodogs	Long Island City High School	New York	NY
2601	Steel Hawks	Townsend Harris High School	Flushing	NY
2836	Team Beta	Nonnewaug High School	Woodbury	CT
2895	Blazenbots	Queens High School for Information, Research & Technology	Far Rockaway	NY
2933	BAHS	Bronx Academy High School	Bronx	NY
3004	bronx knights	Bronx Engineering and Technology Academy High School	Bronx	NY
3017	Patriots	Francis Lewis High School	Fresh Meadows	NY
3053	VB Stingers	Martin Van Buren High School	Queens Village	NY
3059	Envirobotics	Riverside Engineering & Design High School	Yonkers	NY
3111	RoboCougars	Essex County Vocational Technical Schools	Newark	NJ
3112	GSERT Falcons	Gateway School for Environmental Research & Technology HS	Bronx	NY
3142	The Braves	Newton High School	Newton	NJ
3204	TMLA Robotics Team	The Mary Louis Academy	Jamaica Estates	NY
3308	JHS Beavers	Jamaica High School	Jamaica	NY
3419	RoHawks	Hunter College High School	New York	NY

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New York City **FIRST**[®]

NYC *FIRST* Science & Technology Career Expo

Saturday, March 13, 11:00am to 3:00pm

Sunday, March 14, 10:00am to 3:30pm

Career Expo Coordinator:

Arlene Goldman

2010 New York City FIRST Science & Technology Career Expo:

This year marks the 4th annual New York City FIRST Science and Technology Career Expo. A study by Brandeis University found that FIRST participants were more likely to attend college, major in science or engineering, aspire to advance degrees, and participate in some form of community service.


The goal of our Career Expo is to help students learn about 1) the role that science and technology plays in modern enterprise; 2) careers in science and technology ; and 3) the academic preparation required to pursue such careers.

In addition, more than 130 colleges, universities, and professional associations provide more than \$12 million to FIRST students. A number of these institutions are with us this weekend.



300	301	302	303	304	305	306
400	401	402	403	404	405	406

100	101	102	103	104	105	106	107
200	201	202	203	204	205	206	207

500	700	800	900
	600		

Colleges & Universities Saturday, March 13:

Boston University College of Engineering	100
Bucknell University	201
Capitol College	405
Clarkson University	102
The City College of New York	300
DeVry College of New York	400
DigiPen Institute of Technology	103
Drexel University	200
Embry-Riddle Aeronautical University	404
Fairleigh Dickinson University	305
Ferris State University	205
Harvey Mudd College	105
Hofstra University	202
Illinois Institute of Technology	106
Johnson & Wales University	402
Massachusetts Institute of Technology	207
Michigan State University's College of Engineering	107
New Jersey Institute of Technology	306
Norfolk State University	101
Franklin W. Olin College of Engineering	104
Pace University	301
Polytechnic Institute of NYU	303
Rochester Institute of Technology	403
Stevens Institute of Technology	203
Sweet Briar College	304
University of Maryland	302
University of Rochester	401
Worcester Polytechnic Institute	406

Companies & Organizations Sunday, March 14:

Companies:

Bloomberg L.P.	107
Con Edison	103
MTA NYC Transit Authority	105
Popular Mechanics	100
Port Authority of New York & New Jersey	101
Time Warner Cable	203

Associations & Organizations:

Girls' Angle, Inc.	205
Girl Scouts Council of Greater New York	201
IEEE - Institute of Electrical & Electronic Engineers	104
Lower Hudson Engineering Expo	202
NJTEA - New Jersey Technology Education Association	106
SHPE - Society of Hispanic Professional Engineers	102

Saturday and Sunday, March 13 & 14:

ASME - American Society of Mechanical Engineers	204
FIRST Merchandise	900
Lockheed Martin Corporation / 5 th Gear	500
Make Magazine	700
New York Brick Artists	206
Princeton Autonomous Vehicle DARPA Car	600
FIRST CONNECTS.US – Stuyvesant High School	800



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