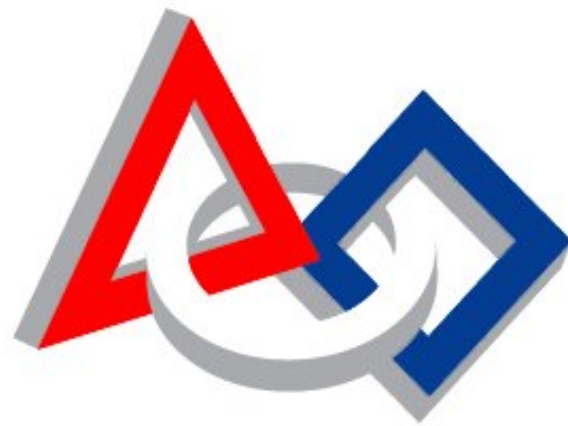


PROPOSAL
FIRST LEGO League
MANHATTAN QUALIFIERS
2008 - 2009



FLL
FIRST LEGO® League

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CONTACT INFORMATION

CONTACT NAME: Francisco Amarante

E-MAIL ADDRESS: Francisco.Amarante@laesa-shpe.org

PHONE NUMBER: (646) 209-0790

CONTACT NAME: Gerome Cabrera

E-MAIL ADDRESS: Gerome.Cabrera@laesa-shpe.org

PHONE NUMBER: (646) 461-0944

ADDRESS: LAESA-SHPE
C/o Joseph Barba
Dean of Engineering
The City College of New York
Grove School of Engineering
Steinman Hall, Room T-142
New York, New York 10031



WHAT IS FIRST LEGO LEAGUE?

FIRST LEGO was established in 1998 by current CEO of DEKA, founder of FIRST, and inventor of the Segway, Dean Kamen. FIRST stands for: *For Inspiration and Recognition of Science and Technology*. The mission of FIRST is to design accessible, innovative programs to build self-confidence, and life long skills, while motivating young people to pursue careers in science, technology and engineering. The FIRST LEGO League (FLL) is a partnership between FIRST and the LEGO Company. FLL inspires and celebrates science and technology to children aged 9 through 14, using real-world context and hands-on experimentation.

With the help of LEGO® MINDSTORMS™ Robotics Invention System™ technology, young participants can build robots and compete in a friendly competition. Using LEGO bricks, motors, sensors, and gears, teams gain hands-on experience in engineering and computer programming principles as they construct and program their unique robot inventions to fit each year's challenge.

FLL has grown significantly, similar programs can be found in places like Europe, South Africa, and China to name a few. Incidentally, with this international expansion FLL has remains true to the pursuit of spreading science, technology and engineering among our youth.

FLL AND CCNY INVOLVEMENT HISTORY

Involvement with FLL started when a group of City College students from LAESA-SHPE felt it was necessary to inspire today's youth to take interest in science, technology, engineering, and math (STEM) at an early age. They sought to target middle school students in order to create a strong pipeline of students who take interest and curiosity in STEM fields from elementary school to college and beyond.

LAESA-SHPE members also recognized that FIRST LEGO League's missions and objectives coincide with their own mission and objectives. In collaboration with organizations such as IEEE-CCNY, and SWE-CCNY, LAESA-SHPE developed a program similar to the FLL competitions that would contribute to the spread of science, technology and engineering among today's youth.

The program, originally called the First Lego League Practice Games and later renamed the Manhattan FIRST Tournament (MFT), was started soon after. The program was intended to give local middle school students participating in the FIRST competitions the opportunity to get much needed practice before the actual NY Regional Tournament. MFT gave middle school students the chance to test out their LEGO® MINDSTORMS™ robot in an environment that closely resembled the NY Regional Finals. The competition resembled a sporting event where children's motivation and excitement are driven by science and technology.



The first MFT was held in a small class room in Steinman Hall with 8 middle schools in attendance. Since its first year MTF at CCNY has come a long way. Now in its sixth year, the program and LAESA-SHPE are ready to take the next step in their involvement with FLL.

The 2009 FLL tournament at CCNY will no longer be a MFT. This upcoming year The City College of New York will be hosting the *official* FLL Qualifier Tournament for the Borough of Manhattan. Along with the official FLL CCNY will also host the Jr. FLL Tournament for students at the elementary school level.

This event is scheduled for January 11, 2009. About 35 teams with students from schools throughout the NYC Region will attend. Approximately 300 students and a total of 700 participants are expected to turn out. This more than quadruples the amount that MFT has had in previous years.

MFT IMPACT ON THE CCNY COMMUNITY

The impact the Manhattan FIRST LEGO League Qualifier Tournament has several folds. Besides having an official FIRST tournament that will allow Manhattan elementary and grammar schools students the opportunity to compete and advance to the Final Tournament, the Qualifier has fostered engineering club cohesion and effort in planning for the event. LAESA is now not only working with IEEE, and SWE but has also partnered with numerous organizations throughout the entire campus to make the event possible.

The Qualifier anticipates having at least 20 Manhattan grammar schools and 8 elementary schools (approximately 300 students) for one day on January 11, 2009 at The City College of New York. These attendees are not only students ranging from elementary school to college, but educators, parents and team coaches that are taking in a great experience, as well as getting exposure to The City College. Before and during the competition, the engineering organizations mentioned above will gain hands on experience with event planning, scheduling, time management, and people skills.

The benefits to the grammar and middle schools will be a venue to compete in an official tournament. Exposure to CCNY facilities and surroundings serves as an introduction to a college experience for the students. The FIRST program has helped NYC students in understanding engineering concepts and design. These students are the leaders of tomorrow and through the event they learn team work, time management, self-confidence, and innovative ways to build, design and program a robot. They've already been exposed to the many skills necessary to be successful in life. It is our hope that the Manhattan Qualifier will encourage the desire in these students to remember The City College and become future leaders in science, technology, and engineering.



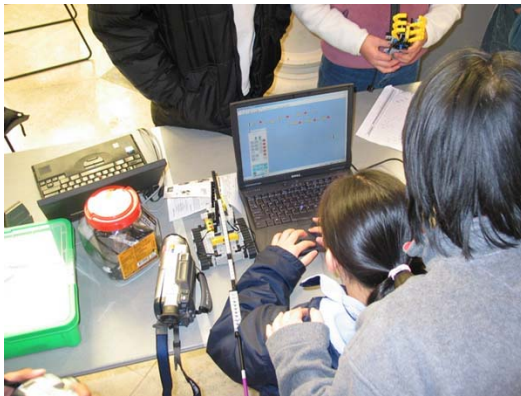
LAST YEARS' EVENTS

LAESA-SHPE hosted two (2) Manhattan FIRST Tournaments here at the City College of New York.

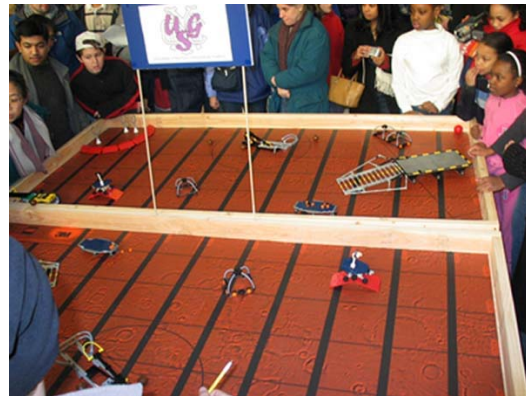
On Saturday, January 6th, 2007, the event was held at The Great Hall. A total of 13 teams participated during this event, which accounted to over 120 people. The tournament was called: Nano Quest.



These children are among the record 80,000 students around the world who have risen to the 2006 FLL Nano Quest Challenge. That year's challenge calls for teams of students ranging from ages 9 to 14 to research and present their own creative applications of nanotechnology to improve people's lives. To successfully complete the challenge, teams must build and program a LEGO MINDSTORMS® robot to explore nanotechnology and the amazing solutions this newest frontier of science and technology can make possible.



Team members adjusting their robots' program while team coaches encourage and give support.



The final match is underway at CCNY's M.F.T.



Ten months later, LAESA-SHPE hosted another Manhattan FIRST Tournament on Saturday, November 10th, 2007. During this event, 11 teams showed up and we had about 150 people in total. The name of this competition was: Power Puzzle.



During the Power Puzzle competition season, more than 100,000 children in over 37 countries were given the opportunity to get excited about science and technology. The teams had to investigate how energy production and personal energy choices impact the environment, economy, and life around the globe. Many which learned about teamwork, how to respect themselves and others, and were inspired to creativity, scientific exploration, and positive life skills.



During the Power Puzzle event, the teams created their own robots to compete in our practice round.



Teams were setting up to practice at the pit. All students participated.



TENTATIVE SCHEDULE

DAY OF THE EVENT
JANUARY 11TH, 2009

9:00AM – 9:30AM	Registration
9:30AM – 10:00AM	Welcoming Remarks/Rules & Set-Up
10:00AM – 10:30AM	Team Competition Commences
10:30AM – 11:30PM	1 st Round of Competition
11:30PM – 12:30PM	2 nd Round of Competition
12:30PM – 1:30PM	3 rd Round of Competition
1:30PM – 2:30PM	LUNCH/ Entertainment
2:30PM – 3:15PM	Plays-offs Session Commences
3:15PM – 3:30PM	Final Match
3:30PM – 4:00PM	Award & Closing Ceremonies



QUALIFIERS TOURNAMENT BUDGET

Items Need	Description	Quantity	Total
Registration and Information	Registration package (T-shirts , names tags, event program)		\$2000.00
Table Parts	This are official sized tables	20	\$ 1000.00
Lunch	6 inch sub heroes	Serving of 700+	\$ 6500.00
Great Hall/ Or Gym	Location for this event, security, and Insurance		\$2500.00
Team Awards	1 st , 2 nd 3 rd Place Prize - Plaques	3	\$ 500.00
	Individual Awards and Certificates	10	\$ 500.00
Advertisement	Advertise the event such as (the web, the media, brochures, posters)		\$500.00
Miscellaneous	Supplies (cost of paper and toner, for printing flyers, nametags brochures, banners, etc)	~	\$ 500.00
Total Cost			\$ 14,000.00



LIST OF ATTENDING SCHOOLS

Columbia Secondary School for Math, Science and Engineering
William O. Shea Complex Middle School
Lincoln Terrace Middle School
Trevor Day School
Friend Seminary
Manhattan School for Children
Manhattan Middle School for Scientific Inquiry
Patria Mirabal
Angelo Del Toro
Maria Teresa
Manhattan Youth at IS 289 M
Vision Education & Media
The Brearley School
Manhattan Country School
The Anderson School PS 334M
William Alexander Middle School
The Paula Hedbavny *School*
Frederick Douglass Academy
Mahalia Jackson Scholars Academy
Little Red School House
Wright Brothers School
PS 1 M
William T. Harris
Mott Hall School

