



2012 Annual Report

FOR INSPIRATION AND RECOGNITION OF SCIENCE AND TECHNOLOGY

WWW.USFIRST.ORG



CHANGE THE FUTURE





CHANGE THE CULTURE



FIRST

FIRST® is about changing our culture...

for the better. More than 20 years ago, Dean Kamen, a pioneering inventor, saw a culture where celebrities and sports stars were celebrated and revered, and scientists and engineers were not. He believed that the world's future would depend on getting more kids from every background interested in and turned on to science, technology, engineering, and math (STEM) so that they might seek education and careers in these fields. With the help of many, *FIRST* (For Inspiration and Recognition of Science and Technology) was established as a 501(c)(3) not-for-profit public charity

Innovation Celebration

The Global Innovation Award for FIRST® LEGO® League teams was awarded to two teams for their food safety ideas; the FIRST Future Innovator Award was introduced to recognize FIRST® Tech Challenge and FIRST® Robotics Competition teams for creativity in effectively solving a real-world, complex problem.

Mentors Fly High

24 FIRST Mentors were invited to fine tune their leadership skills at the U.S. Air Force Leadership Experience at Cape Canaveral.

with the mission to inspire
young people to be science and technology
leaders by engaging them in exciting,
Mentor-based robotics and research programs
that build science, engineering, and technology
skills; inspire innovation; and foster self-confidence,
team-building, and leadership.

Over these two decades, what FIRST has accomplished is nothing short of awe-inspiring, experiencing meteoric growth, attracting hundreds of thousands of youth worldwide (along with tens of thousands of adult Volunteers and thousands of Sponsors) who have discovered that they can be anything they want to be and whose life paths have been forever changed.

2012 Season Highlights

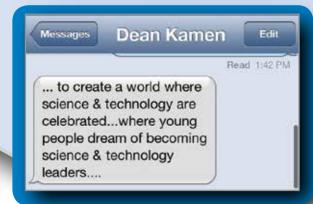
New Inspirational Alliances

A Strategic Alliance was formed with the Boys & Girls Clubs of America, as well as Alliances with the National Parent Teacher Association and the Yale Science and Engineering Association.

YOU CAN HELP THE CHANGE CONTINUE

Learn the full FIRST story and its phenomenal growth path at www.usfirst.org/roboticsprograms

Today, even the worlds of entertainment and professional sports are rushing in to celebrate what *FIRST* is accomplishing and to help *spread the word*.



FIRST Championship

will.i.am, Kareem Abdul-Jabbar, and numerous Fortune 100 CEOs joined a record 646 teams at the 2012 FIRST Championship.

One Million Strong

FIRST LEGO League celebrated an amazing milestone — more than one million experiences provided to children around the world over 13 years.





White House Honors

President Barack Obama recognized seven

FIRST students for their innovative ideas,

teamwork, and patent-pending inventions

at the White House Science Fair.









J.F.L. Junior FIRST® LEGO® League

Teams explore today's scientific

challenges, then present their research

using a LEGO® model with moving

parts and a "Show-Me" poster.

FLL FIRST® LEGO® League

Grades 4-8

Guided by FLL Core Values, teams and develop research projects based on a real-world Challenge that changes annually.

FTC FIRST® Tech Challenge

Grades 7-12

FRC.

Grades 9-12

Mon 12:14PM

2012

experiences; FIRST

100,000 Volunteers

Mon 12:21PM

FIRST®Robotics Competition

build LEGO®-based autonomous robots

Students learn to think like engineers and produce an engineering notebook to document their progress. Teams develop strategies, build robots from a reusable kit of parts, and compete head to head.

Mentored by professional engineers, teams compete with 120-pound robots of their own design in this varsity Sport for the MindTM, combining the excitement of sport with the rigors of science and technology.



CHANGE THE WORLD

wants to participate.

Over two decades ago,

the FIRST® organization came together to help change a world where the values of young people were skewed toward entertainment and sports. Our goal was, and still is, to create a world where science and technology is recognized and celebrated. We imagine a world where young people can be exposed to the fun and excitement of science and technology in hopes that they choose it as a career path, becoming tomorrow's so very needed technological leaders.

While decades of effort and investment by hundreds of thousands of adult

Volunteers, thousands of companies big and small, sports and entertainment moguls, and government leaders have grown our once tiny organization into a global force for change, we are still far from reaching our goal. Far too many teachers and students have yet to discover FIRST, or do not have the opportunity to get involved. We continue to pursue our mission by working to make FIRST available to every student who

It takes an active and engaged community to make these changes. What can you do? Volunteer locally. Become a Mentor. Help raise funds. Sponsor a team. Commit your company's

time, people, and resources.

Help spread the

2012 Amazing Numbers

word wherever you can. With your help and support, we hope to see FIRST flourish in all of our schools and community organizations. Our world desperately needs the next generation of inspired scientists and engineers that FIRST can help produce.

We offer our heartfelt gratitude to a small army of people from many fields who lend their influence, time, and resources to help us effect change: President Barack Obama; entertainment mogul will.i.am; NBA great Kareem Abdul-Jabbar; key government representatives; numerous Fortune 100 CEOs; members of the FIRST Board of Directors; and so many more who offer their brilliance and vision. Our sincere and humble gratitude to our growing and indispensable collection of Volunteers, Sponsors, Mentors, teachers, parents, friends, and fans who make FIRST run and help it grow. Thank you all!

280,000+

Youth participants worldwide (ages 6 to 18)

100,000 Adult Volunteers

8,000,000+

50/60+ U.S. States/Countries

\$15,000,000 Scholarships available

WHAT NUMBERS CAN YOU ADD TO?

www.usfirst.org/donate



We continue to commit ourselves

to the task of making FIRST programs available to every child who dreams big, and to every adult who believes in the importance of developing our next technological wonders.

Dean Kamen, FIRST Founder

Coopertition[®]

Compete like crazy, but also help the other teams.

Sport for the MindTM

What you say when someone asks, "What's FIRST?"

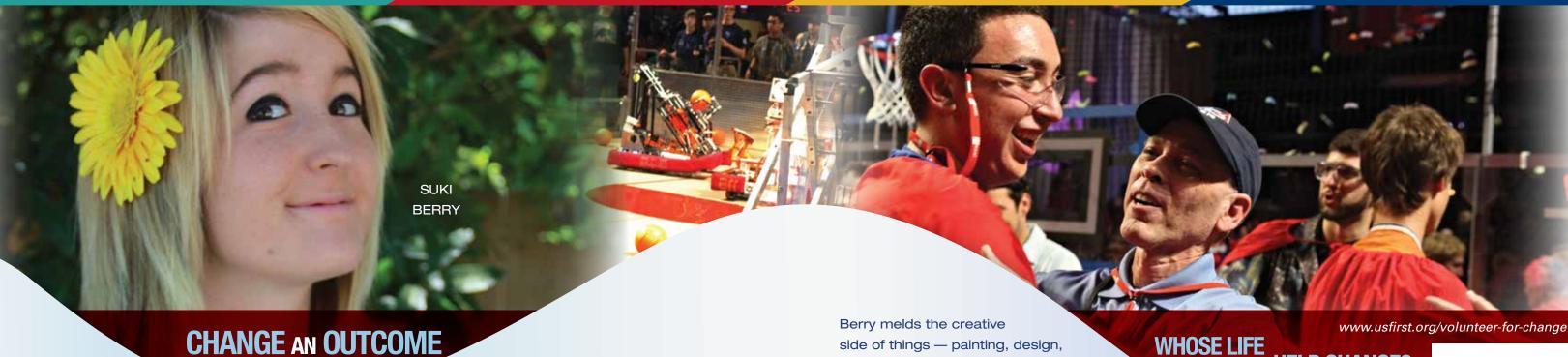
Gracious Professionalism®

HOW TO TALK LIKE

A **FIRST** FAN

What every FIRST team practices: respect for others, being a good sport, sharing what you learned.

Woodie Flowers Edit What are Gracious Professionals? Gracious Professionals are simply good, smart people doing good, smart things



A Work of Art in Progress

For most students,

FIRST is a way to feed their passion for science and technology or help build a college admissions resume. For Suki Berry, a budding artist and senior at San Dieguito Academy High School in Encinitas, CA, FIRST is nothing short of a lifeline.

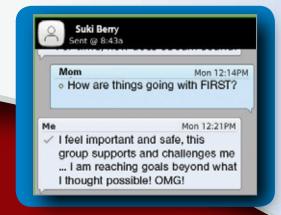
Since middle school, her home life and academic performance have been unstable as a result of divorced parents still living together due to financial hardship. Suki found the structure, focus, and direction she needed by joining FIRST Robotics Competition (FRC) Team 2102, "Team Paradox."

"When I joined the team, I felt like I was part of a shared goal. It made me feel important and also safe," says Berry, living temporarily with a family she met through FIRST.

Although eager to learn to weld, the team needed Suki's skills in the arts even more, to design merchandise and create logos. The team even modified the STEM acronym to "STEAM," adding an "A" for art.

> **CHANGE KIDS' LIVES**

Berry melds the creative side of things — painting, design, and sculpture — with endeavors such as project management and public relations. She is now one of the presidents of the team's marketing arm — designing, sewing, and printing team merchandise, as well as creating promotional videos.



WHOSE LIFE WILLYOU HELP CHANGE?



"Through FIRST, I've discovered an organization with teachers, Mentors, and parent Volunteers who not only support me, but also challenge me to exceed my own expectations; to reach beyond what I thought possible," says Berry.

"I honestly don't know what my current situation would be if I hadn't connected with all these wonderful friends."

As of publication, Berry is majoring in Graphic Communications at Palomar College, San Marcos, CA.

Researched* and documented facts about

the impact of FIRST on today's youth:

FIRST PARTICIPANTS ARE SIGNIFICANTLY MORE LIKELY TO...

IN COLLEGE, THEY ARE MANY TIMES MORE LIKELY TO...

Attend College

Major and pursue careers in science or engineering

Volunteer in their communities

Mentor other FIRST students Become outstanding citizens

Secure internships

Pursue careers in engineering

Minority *FIRST* participants are more than twice as likely and female participants are four times as likely to study science and engineering

*Source: Brandeis University "More Than Robots" Evaluation, 2005





states and 8 countries to celebrate curiosity, imagination, discovery, and teamwork

The Challenge »

Teams explored their favorite snack from farm to table, learned how it is kept fresh and safe to eat, then built LEGO® models and created Show-Me posters depicting their journey of discovery.

PARENT VOLUNTEER Competitions »

More than 90 regional Expos; **Jr.FLL World Festival** Expo in St. Louis



LISA GAYE

Noteworthy »

As the entry-level program in the FIRST Progression of Programs, Jr.FLL is the fastest-growing, with global reach

Lisa Gaye

AT A GLANCE

INSPIRATION

Parent Volunteer, "PS11 LEGO LEADERS" Manhattan, NY Read Lisa's full profile at » www.usfirst.org/lisa-gaye



Welcomed

the duties of helping to coach a Jr.FLL team at PS11, the elementary school her child attended

Helped

shy, young team develop their articulation of ideas and public speaking skills

Led

Jr.FLL graduates into formation of a school-based FLL team for enhanced skillbuilding with real robots





Accomplishments »

BOWLED

The Challenge »

and lift the crates to

score points.

and drove robots robust

Teams designed, programmed,

enough to push a bowling ball uphill, yet sophisticated enough

to pick up racquetballs, place

them into crates, then stack

More than 20,000 participants on 2,100 teams from 13 countries; eligible for over \$10 million in college scholarships

Competitions »

200 Qualifying and Championship Tournaments; FTC World Championship in St. Louis VIVIAN STEPP



Noteworthy »

Now in its seventh season, FTC is poised to impact more students than ever, getting them excited about the engineering process, 21st century work skills, and STEM topics

INSPIRATION AT A GLANCE

Vivian Stepp

FTC Alumna; Sophomore, Georgia Tech

Credited

community group 100 Black Men of Atlanta and FTC as the launch pad for her success, starting at age 14

Recruited

female students to form an all-girl FTC team; took on leadership role as lead programmer and captain

Accepted

into Georgia Tech; named a Gates Millennium Scholar; mentors FLL, FTC, and FRC teams



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- Matching Gift

In addition to our Sponsors, Suppliers, and Contributors acknowledged on these pages, FIRST extends its sincere appreciation to the tens of thousands of Volunteers who generously devote their time and expertise to FIRST Robotics

Competition, FIRST Tech Challenge, FIRST LEGO League, and Junior FIRST LEGO League teams and events. FIRST could not achieve the impact it does without this tremendous support.

FIRST thanks its Supporters and has made every effort to ensure complete and accurate listings. If we've made an error, please accept our sincere apology, and let us know at donations@usfirst.org.

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Dr. Earl Scime

Physics Department, West Virginia University; FRC Team 2614 Mentor

Team 2614 Member

We came to be inspired. We stay because he did. We will become the inspiration.

So say the members of FIRST Robotics Competition (FRC) Team 2614, "MARS", from Morgantown, West Virginia. They are referring to their Mentor, Dr. Earl Scime, aka the "MARS Rock." They describe a man with unending encouragement, a focus on high quality programs, and a concentrated effort to firmly and thoroughly guide students along scientific and technical paths. Dr. Scime helps students realize that difficult problems can be solved with effort and organization. His team has applied this thinking not only to their robots, but also to their successful non-robotic endeavors.

While developing new and strong FRC teams, and many new FIRST LEGO League teams, Dr. Scime has succeeded in the major goal of FIRST — the "big I," inspiration. As a team leader, he has inspired students throughout West Virginia. The foundation that has been built with his guidance will undoubtedly result in great things for vears to come

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SCHOLARSHIP PROVIDERS

FIRST

2012 FIRST SCHOLARSHIP WINNERS

FIRST offers many educational opportunities. In 2012, all FIRST Robotics Competition (FRC) team members were eligible for over 741 scholarship opportunities, valued at \$15 million. FIRST Tech Challenge (FTC) participants were eligible for \$10 million of these funds.

The majority of FIRST scholarships are provided by colleges or universities for enrollment at their campuses, with the remainder provided by corporations and professional associations for use at any school. On page 22 are listed 154 FIRST Scholarship Providers, including 19 that are new this year.

Some FIRST scholarships are awarded for specific majors such as engineering, math, science, computer science, or technology. Others can be used for any course of study. The values of scholarships vary from under \$1,000 to full tuition (valued at \$160,000). Most are renewable annually if the student maintains the required academic average.

Highlights

88% of Scholarship recipients majored in Engineering

40% of Scholarships can be used for any major

26% of Scholarships were offered to women

Chances of FIRST participant winning a Scholarship: 1 in 3

Thomas Stephens

■ Member of the FIRST Board of Directors

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University of Wisconsin - Madison

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Seegrid

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Sweet Briar College

Temple University

Tulane University

University of Central Missouri

University of Hartford

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Washington University in St. Louis/Boeing

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William Paterson University

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Youngstown State University

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Megan Smith

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Each year, FIRST Founder Dean Kamen presents the Founder's Award for exceptional service in advancing the ideals

Presenting the 2012 Founder's Award to Google Inc. at the FIRST Championship, Kamen recognized the company for helping FIRST reach its strategic objectives to grow. Google sponsors 20 FIRST Robotics Competition (FRC) teams and funds eight FRC Regional events from Boston to Silicon Valley, along with FIRST Tech Challenge and FIRST LEGO

The FIRST Green e-watt saver LED bulb fundraising program — made possible by a generous grant from Google — helps teams across all FIRST programs raise funds while encouraging their communities to protect the environment.

The award was accepted by Vice President of New

Business Development, Megan Smith. "One of the most exciting things we see at Google is that all of this technology is bringing the talent of the world together," said Smith, who encouraged participants to share their incredible experience with other kids in their schools so they, too, will join a FIRST team.

Buy a bulb, light up a kid's future!



www.usfirst.org/roboticsprograms/first-green-e-watt-saver

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YOUNG INVENTORS



The 2nd annual **FLL Global Innovation Award**

encouraged, celebrated, and supported youth innovation, offering teams an opportunity to further develop and submit ideas stemming from the season's food-safety projects.

First Place winners of the 2012 FLL Global Innovation Award:

FLL Team "Moderately Confused" of Dublin. Ohio Invention: Erasable Barcode to prevent the sale of meat stored at improper temperatures at grocery stores

> FLL Team "S.I.S. Robotic Revolution" of Shelton, Conn.

> > Invention:

Smart Sticker to indicate whether or not food has been

stored at the appropriate temperature

The FIRST Future

Innovator Award sponsored by The Abbott Fund

honors creativity in effectively solving a real-world, complex problem through the invention of a unique solution beyond the requirements of the FIRST competition

> Winner of the inaugural 2012 FIRST Future Innovator Award:

season and events.

of Paradise Valley, Ariz. EyewriterB 2.1, an inexpensive system that allows

Ben Mattinson from FRC Team 2840 "Blue Tide"

a disabled user to control a computer using only the motion of his/her eyes

Financials Application of Funds

2%

Team services

G&A expenses

balanced growth in revenues and expenses. Contributions remained strong, as many individuals, small businesses, corporations — including over 200 of the Fortune 500 companies — and foundations continued or increased their support and new Sponsors joined FIRST. This support provided meaningful experiences to more than 280,000 youth engaged in the FIRST Progression of Programs.

Significant program expansion was achieved in fiscal year 2011-2012 with

In keeping with long-time practices, FIRST continued to apply the maximum percentage of funds possible to directly benefit FIRST teams.



For the fourth consecutive year, FIRST achieved a 4-star rating from Charity

Navigator, certifying our commitment to accountability, transparency, and responsible fiscal management. This rating places FIRST in the top 7% of all charities evaluated by Charity Navigator.

STATEMENTS OF ACTIVITES	JUNE 30, 2012	JUNE 30, 2011
Revenues and other support: Program registration fees Contributions and grants Rental income, net of expenses Other income Special project, net of expenses Net assets released from restrictions	\$ 16,746,773 19,529,408 137,050 905,849 42,001 13,099,941	\$ 14,074,525 15,615,389 158,845 429,425 25,017 11,007,189
Total revenues and other support	50,461,022	41,310,390
Expenses: FIRST Robotics Competition (FRC) FIRST LEGO League (FLL) and Junior FIRST LEGO League (Jr.FLL) FIRST Tech Challenge (FTC) FIRST Place (FP) General, administrative and fundraising Operation of building Depreciation	34,754,397 4,786,963 1,792,989 100,947 6,339,921 334,865 374,820	29,310,219 3,989,305 1,301,130 110,022 4,677,870 192,786 382,435
Total expenses	48,484,902	39,963,767
Operating surplus	<u>1,976,120</u>	1,346,623
STATEMENTS OF FINANCIAL POSITION		
Assets: Cash and cash equivalents* Short-term investments* Pledges, receivables, and other assets Net property, plant, and equipment	13,194,985 8,475,693 7,747,006 3,663,438	\$10,937,861 6,559,528 8,183,290 3,579,012
Total assets, end of year	33,081,122	29,259,691
Liabilities and net assets: Total liabilities Net assets: Unrestricted Temporarily restricted	4,389,434 16,523,793 12,167,895	4,015,048 14,547,673 10,696,970
Total net assets, end of year	28,691,688	25,244,643
Total liabilities and net assets, end of year	\$ 33,081,122	\$ 29,259,691

For each of the two fiscal years summarized above, FIRST received an unqualified opinion from its independent auditors, BerryDunn.

*Note: The cash and short-term investments are comprised of both unrestricted funds and donor temporarily restricted funds. The total liquid assets balance available to FIRST, for operating purposes, at June 30, 2012, is equivalent to approximately 4 months of FIRST operating expenses.

The financial information presented here is condensed and does not include the value of all donated services and materials. Audited Financial Statements (AFS) are available on the Web site at www.usfirst.org under "ABOUT US/Annual Report & Financials." Certain amounts reported for 2011 have been restated. For details, please refer to the accompanying notes which are an integral part of the AFS, at the above Web address.

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Championship photography by Adriana M. Groisman and Argenis Apolinario. Official White House photo, page 2. Other images courtesy of FIRST teams, Volunteers, and Sponsors.



VISION

"To transform our culture by creating a world where science and technology are celebrated and where young people dream of becoming science and technology leaders."

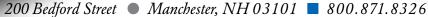
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To inspire young people to be science and technology leaders, by engaging them in exciting Mentor-based programs that build science, engineering, and technology skills, that inspire innovation, and that foster well-rounded life capabilities including self-confidence, communication, and leadership.

significantly more likely to attend college, twice as likely to go on to major in science or engineering, and three times as likely to major

specifically in engineering.









INSPIRATION AND RECOGNITION OF SCIENCE AND TECHNOLOGY



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