

GIRLS 4 SCIENCE



GROWING
EXPONENTIALLY

2013 ANNUAL REPORT

Darcell Creswell (2013 graduate)
Girls 4 Science Participant
receiving scholarship from Board
member Elaine Harris



Participating in Girls 4 Science has made it clear to me that the influence of women in science, technology, engineering and math is every woman's legacy from birth. I am now more interested in subjects like Horticulture, Genetics and Engineering because of the mentors who took time out of their schedules to facilitate themed field trips and class activities while I was in G4S. I am very thankful to have been recognized as a 2013 G4S scholarship recipient and I will use my education at Western Illinois University to continue to overcome barriers and excel in STEM.

Contents

- 1** Girls 4 Science Graduate, Darcell Creswell
- 3** Letter from the Executive Director, Jackie Lomax
- 4** Girls 4 Science: Girls Growing Exponentially
- 5** Partnerships Helping Girls 4 Science Grow Exponentially
- 6** Girls 4 Science 2013 Report Card
- 7** Oh the Places You'll Go- 2013 Explorations
- 8** Girls 4 Science Sites of Operation
- 9** Girls 4 Science Graduate, Leona Barnes
- 10** Girls 4 Science Accomplishments: Heights Reached
- 11** Letter from the Board President, Linda Boasmond
- 12** Girls 4 Science Leadership
- 13** Girls 4 Science Financial Report: 2013 in Review
- 14** 2013 Giving List
- 15** Girls 4 Science Volunteers

The mission of Girls 4 Science (G4S) is to increase science literacy amongst girls ages 10-18 through scientific discovery and collaboration with external partnerships.



Letter from the Executive Director



Girls 4 Science (G4S) continues to make great strides for science, technology, engineering and mathematics equality through its Saturday Science Academy program. 2013 was a year of great milestones; first with the expansion of a third location at the University of St. Francis and second with the addition of new staff and board members. In addition we honored Dr. Kawtar Hafidi from Argonne National Laboratory as our first G4S Female Scientist of the Year.

One of our goals for 2013 was to recruit more volunteers. With the slow economy, we found favor with people willing to donate their time and skill. The commitment of our Mentors and their dedication of time on Saturdays has allowed us to offer 100 girls each quarter free STEM activities.

In a recent student survey 84% of G4S participants expressed an interest in studying STEM in college. G4S awarded two inaugural participants \$1,000 scholarships to college sponsored by Cedar Concepts Corporation. With the support of Ingredion Incorporated three girls traveled to Space Camp for one week.

Managing growth was another area of improvement for G4S this year. Northwestern Kellogg Graduate students created a strategic plan for G4S as an educational project and SydneyMalcome LLC continued to work with us on organizational development and capacity expansion efforts. Both Northwestern Kellogg Graduate students and SydneyMalcome laid out areas of improvement for differential learning for girls 10-18 years of age while also encouraging us to revise our mission and vision statement. Defining our metrics was another recommendation that will highlight long term funding goals as well.

We look forward to our continued partnership with City of Chicago Colleges and University of St. Francis as the host of our Saturday Science Academy classes. We would also like to thank all of our supporters and volunteers who have helped us celebrate our 5th year of service in the community.

Regards,

A handwritten signature in black ink that reads "Jackie Lomax". The signature is fluid and cursive.

Jackie Lomax
Founder/Executive Director
Girls 4 Science

(L-R) Patricia Saldana Natke, President Urban Works Jennifer Durate G4S University of St. Francis participant Miss Illinois Brittany Smith 2013



Girls 4 Science achieves its mission by offering girls access to free hands-on experience, exposure and professional mentorship in the fields of Science, Technology, Engineering and Math (STEM).

More than ever female youth in Chicago need to feel safe, confident and capable of contributing to society in ways that have the potential to change the trajectory of the world. Girls 4 Science (G4S) believes that STEM achievement and innovation is the solution. Nationally, there are noted disparities in access to and employment amongst women

and men in STEM. Of all engineers, only 14% are women and 5% are African American. Girls 4 Science serves as a catalyst for under-represented female youth to confidently pursue the advanced study of science and compete for employment opportunities in the STEM field.

Girls 4 Science is a nonprofit organization whose mission is to increase science literacy amongst girls ages 10-18.



Partnerships Helping G4S Grow Exponentially

Over the past five years Girls 4 Science has been able to do exemplary and impactful work to increase science literacy amongst our participants. Some organizations that have allowed us to provide dynamic and hands-on activities to our girls are:



Ingredion Incorporated:

Ingredion not only provides financial support, but committed G4S board members from the company ensure that we have access to technology, field trips and guest instructors that keep our girls engaged and aware of the latest scientific trends in the food, beverage, brewing and pharmaceutical industries. Ingredion is a company that values Safety, Quality, Integrity, Respect, Excellence and Innovation. Ingredion support allows us to be more aware of and integrate the aforementioned values into our curriculum.



Women in Bio (WIB):

Women In Bio is an organization of professionals committed to promoting careers, leadership, and entrepreneurship for women in the life sciences. The commitment of WIB to G4S has primarily been one of time and talent. Volunteers from WIB serve as G4S mentors by regularly attending and leading Saturday Science Academy's and helping guide our goals through the complicated processes of STEM competition applications, college applications and other activities that require one-on-one assistance.



Illinois Tool Works:

Since its founding over 100 years ago, ITW has become one of the world's leading diversified manufacturers of specialized industrial equipment, consumables, and related service businesses. The company has operations in 56 countries that employ approximately 51,000 women and men who adhere to the highest ethical standards. These talented individuals, many of whom have specialized engineering or scientific expertise, contribute to our global leadership in innovation. The care and support we have received from Illinois Tool Works has propelled G4S curricula and internal and external opportunities that have led to increased exposure in the STEM field for our participants.

Ways to partner with G4S

- Sponsor a Saturday Science Academy
- Host a Saturday Science Quarter
- Donate program supplies
- Sponsor a bus for a G4S field trip
- Provide refreshments for a G4S Saturday Science Academy
- Sponsor G4S t-shirts which include your company logo
- Become a board member

"G4S parents are crucial to the success of our program. The reports and feedback of parents demonstrate the varying levels of impact G4S programming has on our girls, families and ultimately the community." - Jackie Lomax, Founder/Executive Director, G4S

"I am a G4S mom. My eldest daughter and I talk often about how much she's learning about science and the different pathways for her in the field. Sometimes we watch the news together and hear the talk about other countries passing the United States in education when it comes to STEM. If this is the case, children like my students absolutely will not have a fair chance to compete for admission into selective enrollment schools, scholarships for post-secondary education and most importantly for higher paying jobs once they graduate....G4S would cost hundreds of dollars to attend if it were a for-profit company. Unfortunately if we had to pay out of pocket, my daughter would probably not be able to attend a STEM program and receive the benefits of this type of exposure. It's like getting a hands-on, private school education in science for free! When my 3 year old daughter sees my older daughter heading to G4S or working on a G4S project she makes a statement such as "I'm going to be a Girls 4 Science student when I grow up!" Having a program like Girls 4 Science is the key to future American competitiveness, translation-G4S now...STEM career later." - Pepsi Patterson

2013 G4S Report Card

10-18	Age range
90%	African American
35	Schools represented throughout the Chicagoland area
100	Girls participate in G4S each quarter
27	Approximate number of elementary aged girls register at each site
7	Approximate number of high school aged girls registered at each site
17	New registered each program quarter
11	New volunteers each quarter

About G4S Girls

After completing a Saturday Science Academy our girls reported the following: (data compiled from pre/post surveys of the four program quarters of 2013)

83%

want to study STEM in college

94%

are confident in Science

84%

are confident in Math

86%

would participate in future sessions

94%

would recommend G4S to their friend





Oh the places you'll go!- 2013 Explorations

- Chase Bank Personal Finance Planning
- Argonne Lab at USF
- Windmills lab
- Garfield Park Conservatory
- Chicago River
- Ingredion Incorporated
- Museum of Science Industry

Growing Exponentially

Girls 4 Science (G4S) is positioning itself to be the leader in STEM exposure for girls throughout the Chicagoland area for years and years to come. Girls 4 Science's program model collaborations with STEM professionals and corporations, and intentional efforts to celebrate and raise awareness of women in STEM-will change the overall perception of STEM in Chicago. G4S is committed to making STEM exposure and learning accessible and fun so that girls are excited about STEM. The G4S model is rooted in girls believing in themselves and their ability to contribute to the community and society at large in a field where women are under-represented. If more girls have access to G4S programming there is great potential for more women to study STEM on a collegiate level, pursue STEM professions and offer unique perspectives to future STEM innovation. G4S will change the trajectory of the lives of many deserving young girls in Chicago.

G4S Sites of Operation



Olive Harvey City College of Chicago
10001 S. Woodlawn, Chicago IL

Olive Harvey is the home of the original Girls 4 Science Saturday Academy. Beginning in 2009, G4S launched our organization in a science laboratory at Olive Harvey, obtaining the support of the Director of City Colleges of Chicago. Over 500 girls have participated in G4S in the home of Olive Harvey.



Malcolm X City College of Chicago
1900 W. Van Buren St, Chicago IL

Malcolm X is the first site in which G4S expanded its operations beginning in 2012. Almost two complete years as an operational G4S site, G4S was able to increase science literacy with more girls from different neighborhoods throughout Chicago by hosting our Saturday Science Academies at Malcolm X. With the addition of this site we began expanding field trips and relationships with local schools.



University of St. Francis
500 Wilcox St., Joliet, IL 60435

University of St. Francis (USF) is the third G4S site, started in the Fall session of 2012. The addition of St. Francis has allows G4S to expand our curricula with the support of a dedicated USF liaison and redefine the face of underserved access to STEM opportunities.



Leona Barnes (2013 graduate)
Girls 4 Science Participant
receiving scholarship from Board
member Elaine Harris



"As an inaugural member of the Girls 4 Science Saturday Science Academy, I was able to learn a lot from the program. I have been able to construct circuit boards, build robots, test water conditions at local lakes, dissect animals, visit museums and speak with accomplished women in STEM. I attribute my strong academic success to G4S. The mentors and Site Coordinators helped ensure real world application during structured lab activities."

Heights Reached: G4S Accomplishments



- **Space Camp Trip:** Girls 4 Science hosted an essay contest to award 3 girls scholarships to attend a space camp at the U.S. Space and Rocket Center in Huntsville, Alabama. The scholarships were funded by Ingredion Incorporated, a leading global provider of ingredient solutions based in Westchester, Illinois. The scholarship winners included: Eryn Brazil, a 12 year old student at The Ancona School in Chicago; Carmen Jones, an 11 year old who attends Skinner North School in Chicago; and Mia Pettigrew, a 12 year old student at Heritage Middle School in Berwyn.
 - Ilene Gordon, Ingredion chairman, president and CEO, got the idea to fund the scholarships when she took her executive team to space camp for a team-building session earlier this year. "Ingredion has been a supporter of STEM education and Girls 4 Science for a couple of years and space camp seemed like a great fit. It's a potentially life-changing experience with hands-on activities, from flight simulation to moon-walking exercises," Gordon said. "I firmly believe that a STEM education is one of the keys to success in the business world. It enhances analytical thinking, which is essential to making sound, fact-based business decisions that drive results," Gordon added.
- **Other 2013 Successes**
 - Executive Director Jackie Lomax being named a 2013 Allstate Give Back Day Hero
 - Expansion of Saturday Science Academy programming to a third site, University of St. Francis in Joliet, Illinois
 - Increased staff by 6 Site Coordinators
 - Hosted 3rd Annual Women's History Month Reception & Award Ceremony attended by 200 people
 - Hosted Summer Science Recognition Reception at the Museum of Science and Industry attended by 300 guests
 - Awarded two \$1,000 scholarships to G4S graduating participants
 - Launched online parent orientation

Impressive accomplishments and significant changes occurred in 2013. Our mission "to increase science literacy for girls ages 10 – 18 through scientific discovery and collaboration with external partnerships" was paramount throughout our activities. Our study modules this year included engineering, biology, information technology as applied to real world applications and finance.

Letter from the Board President

Our parent and student surveys continue to support our mission with over 50% indicating improved studies in math and over 60% improved performance in school. In addition, 70% of our attendees indicated a desire to pursue a STEM field in college. 2013 saw our first graduating seniors all of whom enrolled in a 4-year college or university program. Over 50% of our graduates are pursuing a degree in a STEM field with another 25% undecided (we're continuing to assist them in making good career choices, preferably in a STEM field).

Girls 4 Science was extremely pleased to add more external partnerships in 2013. Our programs involved staff from places such as IIT, DePaul University, University of St. Francis and City Colleges of Chicago. In addition we had the opportunity to study at the zoo, Salesforce.com Chicago, IIT along with a visit from City Treasurer Stephanie Neely. Our mentoring network included the Women in Bio event at the Willis Tower. Executive Director Jackie Lomax was recognized by Allstate Foundation as an Allstate Give Back Day Hero.



The number of participants in G4S increased over 30% percent as we added our third location at the University of St. Francis in Joliet. The Girls 4 Science board expanded over 50% adding member participants from Ajinomoto and Baker McKenzie. The G4S summer recognition luncheon was overflowing with more than 250 attendees at the Museum of Science & Industry where the girls displayed the results of our science poster challenge. These accomplishments exemplify G4S's commitment to the development of girls in the area of STEM.

The achievements in 2013 were made possible by the support of our sponsors, staff, volunteers and parents. G4S continues to enrich lives and strengthen our communities. We are so proud of our girls!

Regards,

Linda Boasmond

"Women have made great strides over the years but there is still much more growth to be achieved by such a vast under-utilized resource. Just think about how many diseases that have not been cured, ideas lost, unsolved problems not solved. Why?... because only half the population is engaged, trained and focused on the issues and problems? By exposing young girls to STEM, allowing them to see women living and working in their dream fields, cultivating interests and excitement for STEM, we can build stronger, empowered, confident, well-educated girls that become even more highly productive incredible women that not only contribute to raising families but to solving problems and creating a better futures for themselves, their children and for society as a whole. By participating on the board of Girls 4 Science, I am able to help girls early in their development dream bigger dreams."

Elaine Harris
Senior Manager, Ingredion, Inc.

2013-2014 Board of Directors

Linda McGill Boasmond
Cedar Concepts Corporation

Onone Alabi, M.A.
Chicago Public Schools

Alan Brazil, C.P.A.
DuSable Museum

Robin L. Brown, M.B.A.
Ingredion Incorporated

Elaine Harris, M.B.A.
Ingredion Incorporated

Diane MacDonald
Baker & McKenzie LLP

Susan Schaad
Ajinomoto North America, Inc.

Amy E. Wilson, PhD., J.D.
Baxter Healthcare Corporation

Girls 4 Science is honored to have a committed Board of Directors that actively guide and support us in our continued growth. If you are looking for an exciting opportunity to use your expertise and support a growing organization consider joining our Board of Directors.



"I was encouraged by another member on the Board from the Food Industry to join the G4S board. STEM educational strengths are key for successful career focuses in Food Industry Sales, Product Development and Food Innovation. I joined the Board to reinforce the base to include Food Science, and my passion for growing women to making a difference in the food Industry."

Susan Schaad
Account Executive
Ajinomoto North America, Inc.



G4S Finances: 2013 in Review

G4S Finances: 2013 in Review

G4S added one location for Saturday Science Academies (University of St. Francis)

G4S has approximately 100 girls enrolled each quarter and approximately 68 girls are in attendance during each Saturday Science Academy between all three sites.

In-Kind contributions allow G4S to avoid cost for space and other services that would be costly otherwise such as legal and accounting

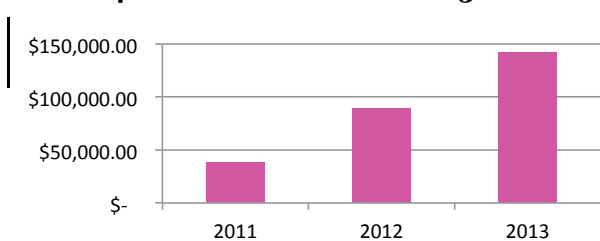
G4S 2013 Percentage of Income and Expenses					
	Expenses	Percentage		Income	Percentage
Program	\$ 37,670.00	27%	InKind	\$ 54,799.55	39%
Supporting	\$ 21,224.00	15%	Individual	\$ 14,060.00	10%
Administrative	\$ 43,266.00	31%	Grants	\$ 8,750.00	6%
Special Events	\$ 38,749.00	27%	Corporations	\$ 64,061.45	45%
	\$ 140,909.00	100%		\$ 141,671.00	100%

Girls 4 Science Total Income

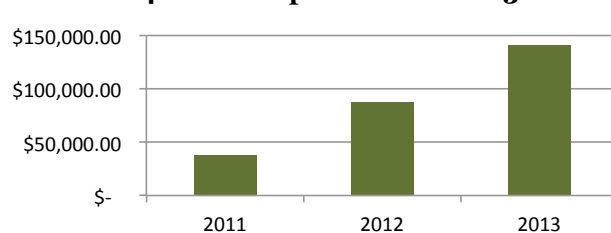
Girls 4 Science Total Expenses

2011	2012	2013	2011	2012	2013
\$ 38,000.00	\$ 89,000.00	\$ 141,671.00	\$ 38,000.00	\$ 88,000.00	\$ 140,909.00

G4S Total Income- 2011-2013



G4S Total Expenses 2011-2013



In-Kind donations include:

- Saturday Science Academy Space
- Accounting and legal services
- Space of Special Events and Fundraisers
- Various program supplies

Program expenses include:

- Staff salaries
- Buses
- Field trip entry fees
- Food for students
- Program Supplies
- G4S T-shirts
- Dry cleaning of girls lab coats
- Copying and printing activities

Opportunities to help G4S with Fiscal Improvements

It cost G4S \$35,227.25 to run all three G4S sites each quarter

Organizations and individuals looking to adopt a G4S site for a Quarter can do so at a cost of \$11,742.42

One G4S Science Session (one day of programming) cost each site \$489.27 to serve a maximum of 33 girls

Sponsorship of a G4S quarter includes but is not limited to spotlight at each quarters culminating event

2013 Giving List

G4S is grateful for all contributions and time volunteered

\$15,000-\$10,000

Cedar Concepts Corporation
Ingredion Incorporated

\$9,999-\$5,000

Boasmond, Eric W. & Linda
Comed
Illinois Tool Works Foundation
Joseph & Bessie Feinberg Foundation
Vista Equity Partners, LLC

\$4,999-\$1,000

Allstate Insurance
Aramark
Carolyn J. Gable Foundation
Chicago Foundation for Women
Goldsmith
Powell Graphics
Rogers, Michelle Y.
The Roderick Group, Inc.

\$999 and under

Adams, Heidi
AKZO Nobel Surface Chemistry LLC
Anderson, Kirsten
Baker, Kenneth
Baxter International Foundation
Blair, Janene
Block, Regina
Bolton, Michael
Boykin, Mark & Veryl
Bradley, Patricia
Brown, Queen
Brown, Robin L.
Brown, Sheila
Bullock, Ronnie
Cavens, Antoinette
Chamberlin, Lynn
Chappell, Nakia
Cothran, Judith
Cotterman, Ray & Gail
Cunningham, Ouida
Davis, Martha

Santiago, Eduardo De
DeSantiago, Michael
d'Escoto, Inc
Diab, Maria
Dill, Ebony
Dinunzio, Mary
Dixon, Amina
Dixon, Paul & Marilyn
East, Michelle
Erickson, Robert
Evers, Judy
Executive Club of Chicago
Felice, Frances
Fernandes, Larry
Finkelstein, Ira
Floyd, Noi
Fornarotto, Nicole
Garrison, Jerome
Garza, Evaleen
Gonzalez, Ceasar
Gonzalez, Hector
Gonzalez, Nadia
Griffin, Martha
Harris, Edith & Eric
Harris, Kimberly
Jackson, Toya
Jamieson, Jessica
Janulis, Lynn
Johnson, Lou Ann
Jones, Felicia
Jones, Nakisha
Kipka, Roger & Kristy
Kissling, Heather
Kroger, Erica
Landry, Doyle
Lapka, Rosemary
Lenz, Mark
LLP, Donovan & Yee
Lucas, Essie M. Dr
Maloney, Dawn
Martinez, Oscar
McDaniel-Hall, Gloria
McKenzie, Deanna

Morales, Analee
Nichols, Jeffrey
Norris, Kendall C.
O'Flaherty, Tracy
Ogden, Stasia
Parent, Annette
Pascoe, Frank
Patel, Sandip
Patera, Alexandra
Patrick-Andreasen, Kerry
Patterson, Pepsi
Powell Graphics & Communications
Quin, Melody
Robles, Jose
Santamaria, Henry & Margarita
Schaad, Susan
Scharf, David
Schmelkin, Nancy
Schurz, Taffi
Singer, Lee
Sintich, Sharon
Smith, Sheila M.
Society of Cosmetic Chemists Midwest
Chapter
Soto, Claudette
Stering, Sheila
Susan Schaad
Taiwo, Tamyra
Taylor, Bill
Teferi, Grace
Thompson, Donna
Today's Chicago Woman Foundation
Tyiska, Kenya
Weathersby, Greta
West Bend Mutual Insurance Company
Williams, Joe
Wilson, Amy
Wilson, Cheri & Chapelle, Norman, Jr.
Wilson, George
Yates, Kimberly & Nathan
Yette, Brenda
Yokoyama, Midori
Zollicofer, Christian

Girls 4 Science Volunteers

Aguayo, Viviana
Anderson, Kristen
Andry, Alicia
Arroyo, Giovanni
Audie, Dawn
Barrett, Mary
Berkowski, Kimberly
Block, Regina
Borowicz, Jessica
Briski, Jason
Buckhalter, LaWanda
Busch, Brittany
Camarillo, Diana
Carson, Jenny
Carter, Celeste Evans
Chen, Marian
Chow, Wilson
Clark, Jamiya
Coriano, Veronica
Coston, Elizabeth
Diaz, Leticia
Dukes, Debrina
Flagg, Melissa
Flores, Lilyana
Franklin, Brittani
French, Alexa
Gahungu, Jessica
Gallagher, Audrey
Gant, Phylindia
Grady, Kim
Guan, Sarah
Harris, Tony
Hill, Ivory
Hopson, Amber

Hughes, Amy
Hutchins, Pamela
Irving, Charlie
Jamieson, Jessica
Jones, Michelle
Kalika, Alexandria
King, Natalie
Kipka, Kristy
Kroger, Ericka
Labry, Amy
Laing, Sharon
Lewis, Amy
Lisa, Anna
Lynch, Candice
Lynch, Kelly
Madej, Kayla
Magan, Cora
Malhotra, Sujata
Matthew, Valerie
McCray, Sierra
McDowell, Tammy
McKenzie, Deanna
McManus, Lara
Meeks, Stasha
Mendozam, Adelita
Molian, Raathai
Morris, Leisa
Moskalik, Brian
Myers, Marlita
Ndambulit, Pauline
Neuhausler, Roberta
Owagboriaye, Ashabi
Parker, Bryan
Petty, Aaren

Porter, Lisa
Potdar, Shivangi
Pratt, Kristen
Pryor, Leah
Reavis, Kiersten
Reddice, Rose Mary
Renner, Susan
Rios, Maria
Roberts, Suzanne
Rochon, Jessie
Rosal, Jennifer
Rublev, Elizabeth
Ruemmele, Julia
Sanchez, Diana
Shelton, Chrystine
Sian, Gina
Smith, Lauren
So, Monica
Strojny, Chelsee
Terry, Finnerty
Thompson, Felicia
Towers, Brittany
Turner, Richard
Vasquez, Vanessa
Walters, Tara
Ware, Jewel
Wilder, Lauren
Wilkerson, Terri
Williams, Porsche
Williams, Francine
Yagoda, Shayna
Yocky, Karen
Yuan, Cindy

The mission of Girls 4 Science (G4S) is to increase science literacy amongst girls ages 10-18 through scientific discovery and collaboration with external partnerships.



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