



ANNUAL REPORT

TO THE COMMUNITY 2013



DA VINCI
SCIENCE
CENTER®

Open for Ex*sc*iting Possibilities™

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Our People



DEAR FRIENDS OF THE DA VINCI SCIENCE CENTER,

We offer this 2013 Report to the Community with deepest gratitude for your generous support of the Da Vinci Science Center during our 2013 fiscal year, ending June 30, 2013. Your contributions helped us achieve our most successful year since our inception in 1992.

We measure success by our impact on the lives of students and on the community in which we live. We engaged more than 125,000 students, teachers, and individuals of all ages during our 2013 fiscal year through exhibits and programs at the Center and outreach programs in schools and sites throughout eastern Pennsylvania and western New Jersey.

Our ground-breaking Year of the Human Body, sponsored by St. Luke's University Health Network, introduced thousands of people to cutting-edge medicine, innovative technology, and health-related career opportunities.

Our professional development programs fostered increased use of inquiry-based learning in our region's classrooms and measurable gains in student learning. Our Inventor's Lab Program has already generated one U.S. Patent holder, and a second young inventor is waiting to hear from the U.S. Patent Office about his application.

The following pages highlight our accomplishments over the 2013 fiscal year, with a focus on how your support is making a difference. You will discover how Da Vinci Science Center educational programs and

exhibit experiences are inspiring future young scientists, preparing tomorrow's workforce, and empowering today's educators. You also will explore some of the programs and experiences already underway as part of the Center's Year of Innovation. All of these efforts were made possible through generous support from individuals, corporations, and foundations in our region and beyond.

It is an honor and privilege to lead this organization. We are blessed with the support of committed Trustees, a creative staff, and community partners who embrace our mission of bringing science to life and lives to science with the fullest enthusiasm.

On behalf of the Da Vinci Science Center's Board of Trustees, staff, and more than 100 volunteers, we thank you for investing your resources – whether time, talent, or financial support – in inspiring youth and individuals of all ages with science's ExSClting Possibilities.

Very sincerely yours,

Lin Erickson
Executive Director and CEO

Frank K. Schweighardt, Ph.D.
Chairman



YEAR OF THE HUMAN BODY

The Da Vinci Science Center's groundbreaking Year of the Human Body with St. Luke's University Health Network helped the Center post its strongest performance to date in its 2013 fiscal year, ending June 30, 2013. The Center presented experiences found often in the nation's largest cities and connected a record number of people with the wonders of science in their lives, tomorrow's innovative careers, their enjoyment for discovery, and their creative curiosities. This active and fun approach was inspired by Leonardo da Vinci and transformative figures who have succeeded him into the 21st century.

Record total of	Record in-building attendance	Approximately	Attendance of	Record membership sales
125,209	99,193	30,000	25,296	1,170
PARTICIPANTS	PEOPLE	SCHOOL STUDENTS	PARTICIPANTS	HOUSEHOLDS
a 33.9 percent increase over previous year.		participating in field trips.	in Science On the Move outreach programs.	

POSITIVE NET INCOME FOR FISCAL YEAR AFTER SECURING ANNUAL LOAN PAYMENT.

Engaging Youth and Families

- **Blockbuster Exhibits:** The Center presented Bodies Revealed (Oct. 2012-Feb. 2013) and GROSSOLOGY: The (Impolite) Science of the Human Body (May-Sept. 2013).
- **New Permanent Exhibits:** The Center opened its What is Nano? exhibit area, hurricane simulator tube, and Pin Wall exhibit.

Inspiring Tomorrow's Scientists

- **Mentoring Innovation:** Center continued to inspire and mentor young inventors with support from Chairman Frank K. Schweighardt, Ph.D., a chemist and inventor who has earned nearly 30 patents around the world.



FUELING THE FUTURE

"I was concerned about polar bears, and I wanted to find a way for cars to drive without any fossil fuels. So when I was 10, I created a wind-powered generator that can be used in a solar car, even at night. Dr. Frank Schweighardt helped me with my invention, and I earned a U.S. Patent for it last year when I was 14."

William Schopf

- **New Young Inventor:** Ambrose Cavalier of Saylorsburg, Pa. - who developed a specially-designed bottle cap that lets users adjust how much syrup or other thick, slow-moving fluid flows from the bottle - also began the formal U.S. Patent process at age 11.
- **On the SPOT:** The Center developed its Space for Playing on Technology (SPOT) program for urban high school students in partnership with the Allentown Public Library. The Center was one of 12 American organizations to earn a 2011 grant from the John D. and Catherine T. MacArthur Foundation to create a virtual media lab. The SPOT program also is supported by United Way of the Greater Lehigh Valley.

Preparing Tomorrow's Workforce

- **Mini-Medical School:** The Center held two sold-out public programs for high school students and adults and two sold-out summer camp sessions for students in grades 5-8.
- **Field Trip Workshops:** The Center's Eye Doctor workshops for middle school field trip groups was upgraded, and career highlights were integrated in several other programs for students.





Empowering Today's Educators

- **Leading the Way:** The Da Vinci Science Center's professional programs for K-12 educators continued to be recognized among the best in the United States.
- **Building with Legos:** Center continued its participation in the East Penn School District's cutting-edge STEM initiative by training twelve (12) teachers on the use of LEGO Mindstorms.
- **Impacting Classrooms:** The Da Vinci Science Center's flagship professional development program - known today as the Greater Allentown Math Science Partnership (GAMSP) - has been recognized as one of the 20 best of 630 American programs like it by the U.S. Department of Education. This recognition is based on observation of independent evaluators against national scoring standards.

WHAT VISITORS LEARNED

FROM THE BODIES REVEALED AND GROSSOLOGY EXHIBITIONS

Da Vinci Science Center visitors were asked to post notes about what they learned from the Bodies Revealed and GROSSOLOGY exhibitions when they appeared at the Da Vinci Science Center. Here are some of their responses.

The dirtiest place in the body is your mouth.

Blood circulates through the whole body every 30 minutes.

80 percent of the brain is water.

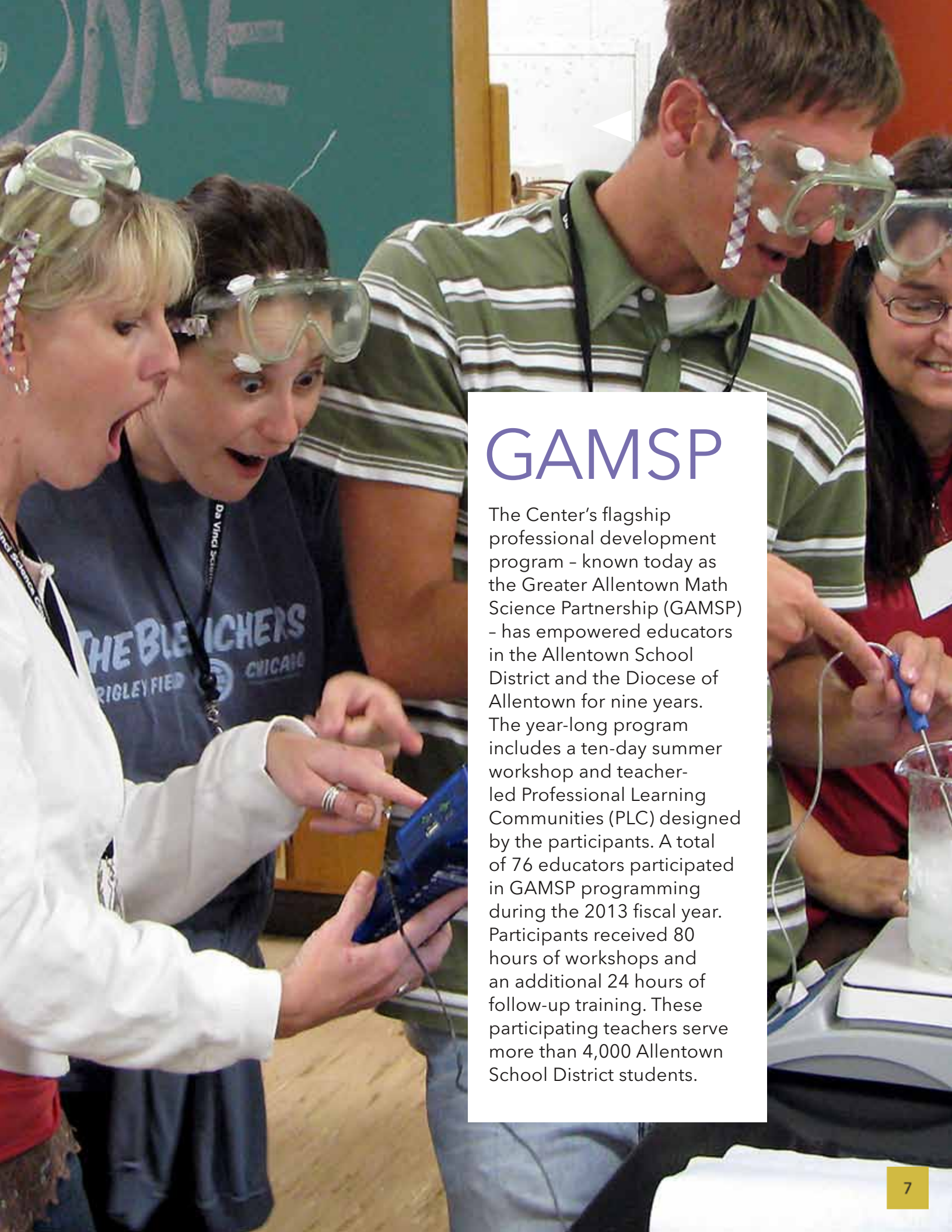
There are 100,000 miles of blood vessels in the body.

You take about 600 million breaths in your life.

If all of your muscles worked together, you could lift ten tons.

Bacteria oozes poison and makes me sick.

The body is amazing and intricate.



GAMSP

The Center's flagship professional development program - known today as the Greater Allentown Math Science Partnership (GAMSP) - has empowered educators in the Allentown School District and the Diocese of Allentown for nine years. The year-long program includes a ten-day summer workshop and teacher-led Professional Learning Communities (PLC) designed by the participants. A total of 76 educators participated in GAMSP programming during the 2013 fiscal year. Participants received 80 hours of workshops and an additional 24 hours of follow-up training. These participating teachers serve more than 4,000 Allentown School District students.



YEAR OF INNOVATION: BUILDING 21ST CENTURY SKILLS

The Da Vinci Science Center will build upon the phenomenal success of its Year of Human Body with additional programmatic themes in the coming years. The 2014 fiscal year features the Center's Year of Innovation, which highlights qualities that are vital for all scientific and technical careers - including creativity, collaboration, process skills, and problem-solving abilities.

Engaging Youth and Families

- **Visitor Experiences:** The Center will host the traveling Tech City exhibition, GE Appliances' Home 2025 exhibition, and the legendary exhibition Space: A Journey to Our Future.
- **Programs:** The Year of Innovation also will include a monthly series of engaging visitor programs that inspire young people to think creativity and collaboratively.



Empowering Today's Educators

- **Expanding Reach:** The Center will work to deepen the impact of its nationally-recognized professional programs for educators by working with Community Services for Children, Inc. (CSC) to provide STEM training for preschool educators, and by expanding GAMSP programming to serve secondary teachers to help their students prepare for the Pennsylvania Department of Education's Keystone Exams.

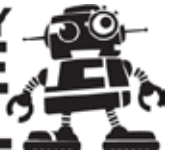




REACHING THE UNDERSERVED

Da Vinci Science Center and community partners will re-introduce the Lehigh Valley Science Festival on March 22, 2014. The free event will be held at Coca-Cola Park in Allentown, Pa.

LEHIGH VALLEY
**SCIENCE
FESTIVAL**



Inspiring Tomorrow's Scientists

- **New Permanent Exhibits:** New experiences will include a life-sized Mack Trucks cab and design simulator, animation station, and Deer Park Natural Spring Water Table.

Preparing Tomorrow's Workforce

- **Lehigh Valley Skill Up:** Da Vinci Science Center is a partner in the Lehigh Valley Skill Up project led by the Manufacturers Resource Center (MRC). The project will bring the national Dream It! Do It! career awareness movement to Pennsylvania. The project will include a video contest for middle school students on manufacturing careers throughout eastern Pennsylvania.





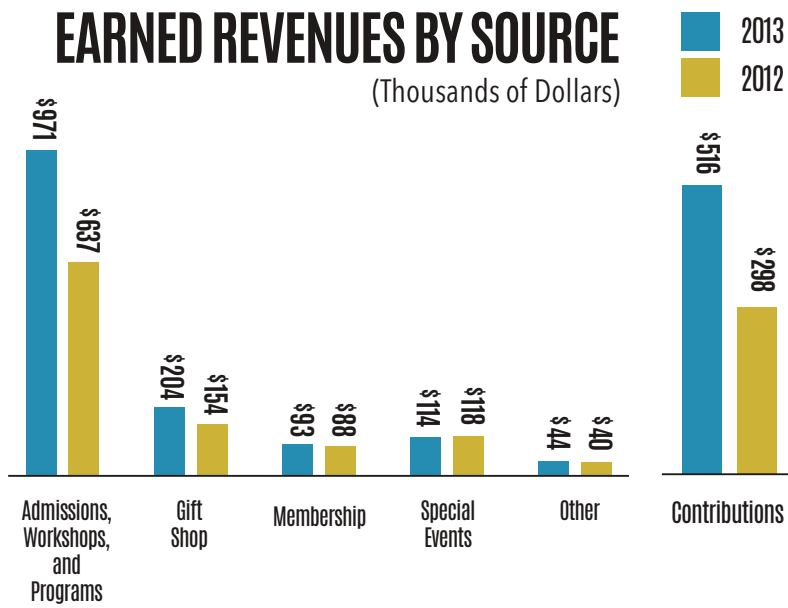
DA VINCI SCIENCE CENTER FINANCIALS

Donor support, sponsorship investments, and consumer revenue helped the Da Vinci Science Center generate its best financial performance since becoming an independent nonprofit organization in 1999.

Statements of Activities		FY 2013	FY 2012
YEARS ENDED JUNE 30			
Revenues	Admissions, Workshops, and Programs	\$971,380	\$636,646
	Gift Shop	204,215	154,416
	Membership	93,096	88,442
	Special Events	114,153	117,798
	Other	43,924	39,752
	Total Revenues	\$1,426,768	\$1,037,054
Support	Contributions	\$515,611	\$297,712
	Grants, Government	239,748	254,786
	Grants, Private	103,550	85,000
	Donated Materials and Supplies	231,829	300,034
	Total Support	\$1,090,738	\$937,532
Total Revenues and Support		\$2,517,506	\$1,974,586
Expenses	Program Services	\$1,489,250	\$1,247,448
	Supporting Services:		
	Management and General	546,503	595,871
	Fundraising	303,322	312,012
	Total Expenses	\$2,339,075	\$2,155,331
	Change in Net Assets	\$178,431	\$(180,745)
Net Assets, Beginning		\$5,280,510	\$5,461,255
Net Assets, Ending		\$5,458,941	\$5,280,510
Statements of Financial Position		FY 2013	FY 2012
YEARS ENDED JUNE 30			
Assets	Current Assets:		
	Cash and Cash Equivalents	\$459,706	\$388,697
	Grants Receivable	115,326	91,713
	Unconditional Promises to Give	62,236	53,206
	Inventory	36,796	26,246
	Prepaid Expenses	91,137	23,308
	Other	12,780	4,065
	Total Current Assets	\$777,981	\$587,235
	Noncurrent Assets:		
	Property and Equipment, Net	\$6,535,705	\$6,652,001
	Unconditional Promises to Give	25,571	49,207
	Other	43,471	49,267
Total Noncurrent Assets		\$6,604,747	\$6,750,475
Total Assets		\$7,382,728	\$7,337,710
Liabilities	Current Liabilities:		
	Current Portion of Long-Term Debt	\$171,541	\$162,605
	Accounts Payable and Accrued Expenses	112,691	115,308
	Accrued Compensation	44,263	39,648
	Deferred Revenue	164,943	138,172
	Total Current Liabilities	\$493,438	\$455,733
	Long-Term Debt, Less Current Maturities	1,430,349	1,601,467
Total Liabilities		\$1,923,787	\$2,057,200
Net Assets	Unrestricted	\$5,271,542	\$5,142,146
	Temporarily Restricted	187,399	138,364
	Total Net Assets	\$5,458,941	\$5,280,510
	Total Liabilities and Net Assets	\$7,382,728	\$7,337,710

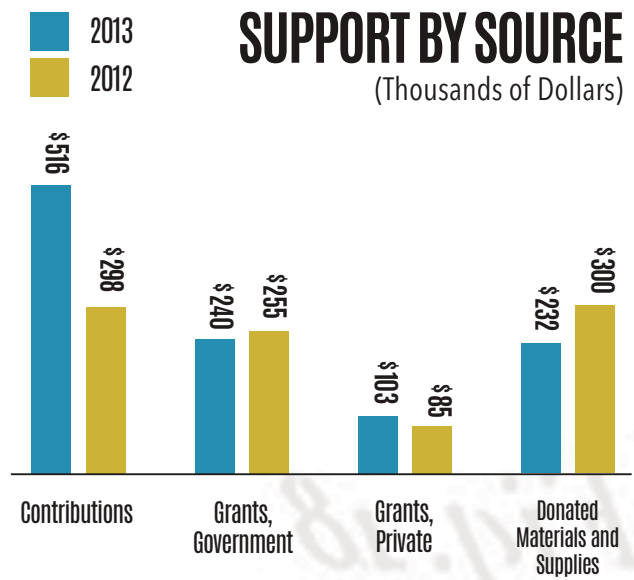
EARNED REVENUES BY SOURCE

(Thousands of Dollars)

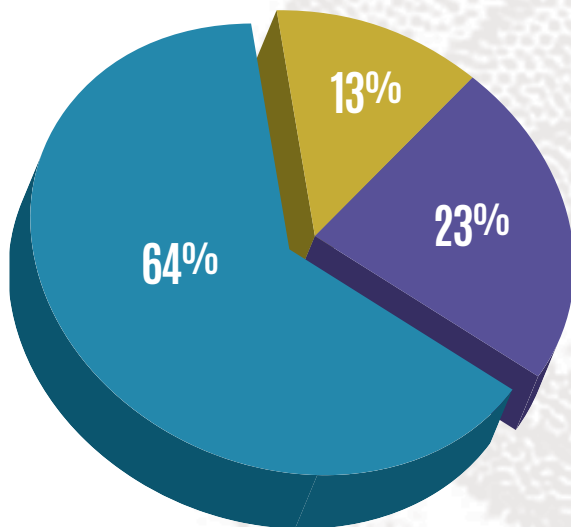


SUPPORT BY SOURCE

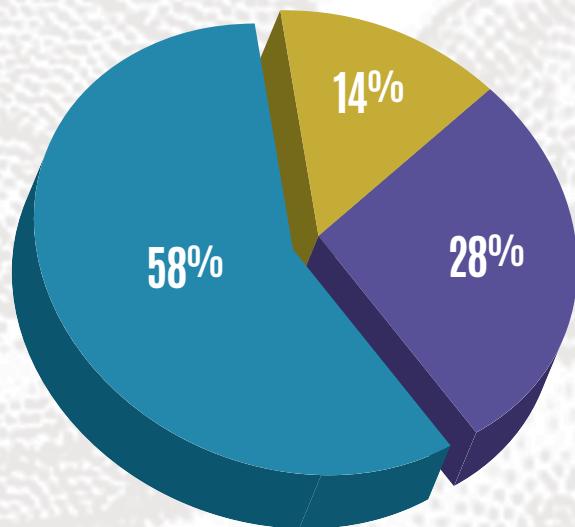
(Thousands of Dollars)



FY 2013 EXPENSES



FY 2012 EXPENSES





2013 DA VINCI SCIENCE CENTER HALL OF FAME GALA

The Da Vinci Science Center Hall of Fame Gala is the Center's annual flagship fundraising event. The gala features the annual presentation of the Center's Hall of Fame Awards for educators, high school students, professionals, and community champions.

- **Presenting Sponsor:** PPL Corporation
- **Student Excellence Award Sponsor:** Air Products
- **Spirit of Leonardo Award Sponsors:** Bob and Sandy Lovett
- **Educator Excellence Award Sponsors:** B. Braun, LSI
- **Young Scientist Award Sponsor:** Frank and Yvonne Schweighardt
- **Classroom Enrichment Sponsor:** Thermo Fisher Scientific
- **Excellence Award Partner Sponsors:** Just Born, Art and Denise Katsaros, LSI, Vincent and Michelle Sorgi, Fran and Pat Waller
- **Rising Scientist Award Sponsors:** Avantor Performance Materials, Computer Aid
- **Award Showcase and Reception Sponsor:** ATAS International, Inc.
- **VIP Lounge Sponsor:** Alvin H. Butz, Inc.
- **Future Innovator Presentation Sponsor:** Lutron Electronics Company
- **Community Advocate Sponsor:** Mosebach, Funt, Dayton & Duckworth, P.C.
- **Friends of Science:** Allentown School District Foundation, Cedar Crest College, Coca-Cola Bottling Co. of the Lehigh Valley
- **Venue Sponsor:** Lehigh Carbon Community College
- **Dinner Sponsor:** CulinArt
- **Audiovisual Sponsor:** AmericaVen
- **Vitruvian Trophy Sponsor:** Fowler and Peña
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- **News Media Sponsor:** The Morning Call Media Group
- **Web Partner:** 401! Creative



INSPIRING AMERICA'S FUTURE

Joy Wang was a finalist in the 2013 Intel Science Talent Search – the nation's oldest and most prestigious pre-college science competition – as a senior at Parkland High School in Allentown, Pa. She has shared the powerful story of her moment of inspiration at the Da Vinci Science Center.

"Eight years ago, I stepped into an oddly-shaped glass building for summer camp, very reluctant, thinking science was just some geeky subject that didn't make any sense. I walked out of that building in love with that geeky subject and determined to make sense of it and to one day become a scientist."

Joy Wang

2013 Da Vinci Science Center Student Excellence Award Winner



SUPPORTERS OF SCIENCE

Donor support, sponsorship investments, and participant revenue helped the Da Vinci Science Center generate its best financial performance since becoming an independent nonprofit organization in 1999.

This list includes all new gifts and pledges made to the Da Vinci Science Center between July 1, 2012, and June 30, 2013.

\$100,000 +	Pennsylvania Department of Education/Allentown School District St. Luke's University Health Network		
\$25,000 +	Air Products* Capital Blue Cross	Institute of Museum and Library Services Bob and Sandy Lovett Mack Trucks, Inc.	PPL* TEVA Pharmaceuticals* Harry C. Trexler Trust
\$10,000 +	ATAS International, Inc.* The Century Fund Daiichi Sankyo, Inc. Thermo Fisher Scientific Beall Fowler Lehigh County	Lutron Electronics Co., Inc. Jim and Irene McLean Rich Milker Laurene Ryan Frank and Yvonne Schweighardt	Vince and Michelle Sorgi United Way of the Greater Lehigh Valley Grant
\$5,000 +	George and Judith Arangio Ronald and Gladys Barclay	B. Braun Brown Daub Family of Dealerships	LSI
\$1,000 +	Ai Orthodontics Allentown School District Foundation Avantor Performance Materials Alvin H. Butz, Inc. Greg Butz Lee and Dolly Butz 21st Century Partnership for STEM Education Computer Aid Crayola Embassy Bank *	Paul Farr Follett Corporation Yan Gao Malcolm and Janet Gross Just Born Katsaros Family Foundation Joe and Gloria Kern Lafayette Ambassador Bank Lehigh Carbon Community College Lehigh University Manufacturers Resource Center	Miami Science Center Barry Mosebach Nurture Nature Pennsylvania Cyber Charter School QNB Rider Pool Foundation Jeremy Thompson Fran and Pat Waller Arthur and Luciana Young
\$500 +	Jackie Agostinho Greg Altonen Antonio and Karen Angello ASTC Dick and Peg Bus Cedar Crest College Coca Cola Bottling Co. of the Lehigh Valley	Kimberly Legg Corba Pat Farrell Pamela Flick Mary Hunsicker Joe and Judy Kaminski Jim Klunk John Patterson and Ann Benioff Megan White Paugh	Museum of Science, Boston Lisa Roszko Matt and Neeley Simmons Joel and Ruth Spira Betsy Thompson Carl and Debra Zvanut

* Includes EITC donations

\$100 +

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Steven and Jane Auvil	Walter and Ruth Dex	Hispanic Chamber of Commerce of the LV	Russ and Marsha Mayo	Edith Ritter	Dave Tachovsky
Judy Barrick	Alvaro and Ari Diaz	Roeland Hoeke	Matthew McKernan	Joel and Beth Rosenfeld	Troy and Jody Thrash
Judy Belaires	Stephen Dimartino	Clyde and Valarie Hornberger	Sailesh and Priti Merchant	Linda and Michael Rosenfeld	Tawan Turnquest and Gerard Darville
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21st Century Partnership for STEM Education	Fleming Foundation	Susan Levy	Timothy and Virginia Oskin	Daniel Schmitt	West Side Hammer
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\$100 and under

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In-Kind Contributions

Advanced Dental Concepts	Carmike Cinemas	FastSigns Lehigh Valley	LL Bean	Rebecca Panfile	Splitendz Salon & Spa
Airgas	Norma Castaldi	Beall Fowler	Longwood Gardens	Lehigh Valley PBS39	St. Luke's University Health Network
Air Products - IET	Cedar Crest College	Fowler and Peña Creations	LSI	Philadelphia Phillies	Strasburg Railroad Company
Air Zoo	Cedar Crest College Book Store	Full Circle Training	Lutron Electronics Company	Pines Dinner Theatre	Thai Thai House
America on Wheels	Civic Theatre of Allentown	James Fuller	Massage Envy Spa	Pocono Raceway	The Morning Call Media Group
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		Kramer Portraits			

All attempts have been made to ensure the accuracy of this donor list. Please direct any questions or comments by phone to 484.664.1002, Ext. 102, or by e-mail to giving@davincisciencecenter.org.



LEONARDO AND THE HORSE

What is known popularly as the Da Vinci Science Center was shaped by the 2003 merger of what was then the Discovery Center of Science and Technology with Leonardo da Vinci's Horse, Inc. (LDVHI) - the nonprofit organization that actualized Leonardo's vision of placing a 24-foot bronze horse statue in Milan, Italy, in 1999. LDVHI also placed a 12-foot replica of The Horse outside the Baum School of Art in Allentown, Pa., in Oct. 2002.



LEONARDO'S HORSE TENTH ANNIVERSARY CELEBRATION

The Da Vinci Science Center and The Baum School of Art co-hosted a tenth anniversary celebration of the city's Leonardo's Horse statue in Nov. 2012.

Da Vinci Science Center Remembers

Dexter F. Baker (1927-2012)

Former Air Products CEO Dexter F. Baker and his wife, Dorothy, were substantial supporters of the Da Vinci Science Center for several years. Their foundation, the Dexter F. and Dorothy H. Baker Foundation, is the Presenting Sponsor of the What Works? area of the Center's exhibit floor. Their foundation was honored with the Da Vinci Science Center's 2012 Spirit of Verrocchio Mentorship Award.



Inez Donley (1915-2013)

Inez Donley and her husband, former Air Products CEO Edward Donley, established The Donley Foundation, which has supported the Da Vinci Science Center and its programs for several years and the Lehigh Valley community for more than six decades. Inez Donley was also a tireless supporter of the Allentown Public Library, Community Services for Children, Good Shepherd Rehabilitation Network, KidsPeace, Lehigh Valley Health Network, Northampton Community College, and the American Red Cross. The Donleys' commitment to advancing educational opportunities, particularly for those in greatest need, has benefitted thousands of Lehigh Valley young people. Their generous support included a major gift to support science education leadership at the Da Vinci Science Center.



Linny Fowler (1939-2013)

Founding Trustee Marlene "Linny" Fowler, and her husband, W. Beall Fowler, Ph.D., shaped the early years of what is known today as the Da Vinci Science Center, and Linny Fowler served as a Founding Trustee since it became an independent nonprofit organization in 1999. The Fowlers were the first recipients of the Center's Spirit of Verrocchio Mentorship Award in 2004. Their generous support included the lead gift toward constructing the Center's building in Allentown, Pa.





OUR PEOPLE

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* Deceased

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Karen Knecht, Director of Education and Exhibits

Judy Belaires, Director of Advancement and Community Relations

Ruth Brown, Director of Guest Experience

Linda Schiaffino, Director of Finance and Administration

As of Feb. 17, 2014

Troy A. Thrash served as the Da Vinci Science Center's Executive Director and CEO during the 2013 fiscal year until Jan. 2013. **MaryAnn Woods Przekurat** served as the Center's interim CEO from Jan.-March 2013 and was the Center's Director of Finance and Human Resources until May 2013.



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Fig. 20

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