



DA VINCI
SCIENCE
CENTER®

EXPANDING IMPACT
Investing in Our Region



DA VINCI
SCIENCE
CENTER®

Open for Exsciting Possibilities™

3145 Hamilton Blvd. Bypass

Allentown, PA 18103

484.664.1002

davincisciencecenter.org



EXPANDING IMPACT
Investing in Our Region

2016
Community
Impact Report





It was a huge year. You gave your time, talent, and resources to support our youth and our community and created more impact than ever before.

THANK YOU

Investing in Our Region

Dear Friends,

The Da Vinci Science Center had a record-breaking year in 2016 and we are so grateful that you were part of this milestone! We welcomed more than 140,000 visitors and program participants (a 75% increase since 2011). With new exhibits, a robust field trip schedule, and an ever-growing outreach program, we were successful in bringing science to life and lives to science for so many in our region.

Our outreach programs continued to bring science into our schools and the community. Our educators, volunteers, mentors, and community partners made it possible to bring a diverse range of programs to underserved areas. We are particularly proud of the growing opportunities we offered for students to connect with STEM professionals at their schools,

as well as at the Center. Students were able to experience science in action and learn about the educational backgrounds and career paths of scientists and engineers in our community. We believe, and research supports, that early and frequent interaction with STEM yields a more equipped future workforce.

Our continued growth prompted us to consider expanding the Da Vinci Science Center experiences, culminating with our announcement in November to partner with the City of Easton to explore building a \$130 million Da Vinci Science City complex along the city's scenic waterfront area. This venture, which will operate along with our Allentown facility, will include state-of-the-art science exhibits for all ages and Pennsylvania's largest and most expansive public aquarium, featuring sharks, sting-rays, sea horses, and other sea life native to the Atlantic Ocean alongside local marine life of the Delaware and Lehigh Rivers.

While we are excited about the opportunity to build a new facility in Easton, we are just as committed to expanding our educational offerings at our Allentown facility. In addition to the expansion of our outreach programs, in 2017 we are opening new permanent exhibit areas including the PPL Energy Zone and the Engineers on a Roll pre-school experience.

Our need for your continued investment has never been greater as we seek to turn our visions into realities. We look forward to working with you, and we thank you for your tireless support of our mission to bring science to life and lives to science.

With heartfelt appreciation,

Vincent Sorgi, Chairman, Board of Trustees

Lin Erickson, Executive Director and CEO



**The Da Vinci
Science Center
Brings Science
to Life and Lives
to Science**

VISION

To be a visionary leader and partner advancing science learning, quality of life, and economic development in the Lehigh Valley area by:

- **Making Science Fun**
- **Supporting STEM Education**
- **Inspiring a 21st Century Workforce**
- **Advancing Social and Economic Vitality**

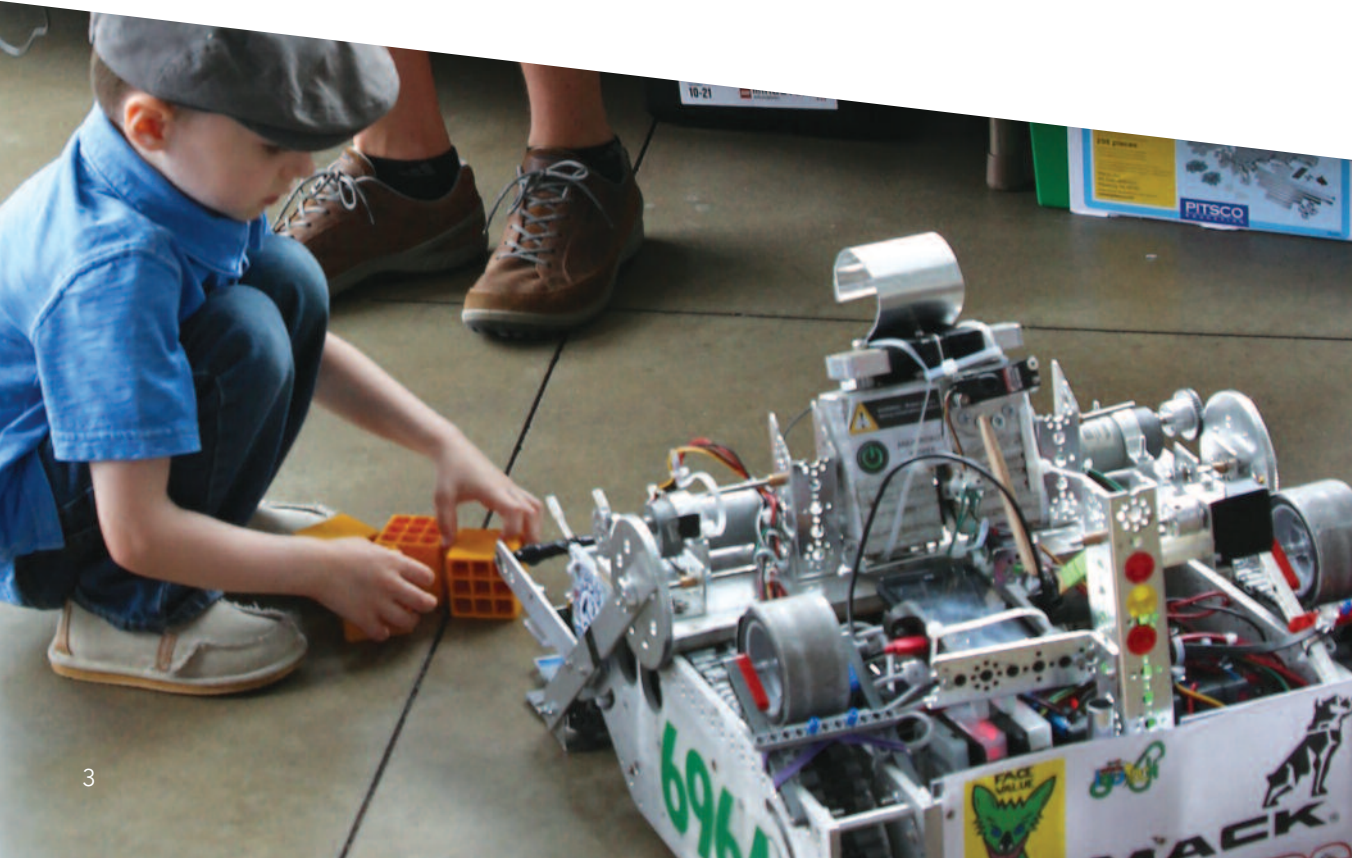
The Demand for STEM Education

STEM pervades every aspect of our lives.

STEM education develops 21st century skills of teamwork, collaboration, and problem solving, important to employers in all industry sectors.

Most jobs of the future will require a basic understanding of math and science. In the Lehigh Valley, 20% of jobs require a high level of STEM knowledge.¹

Highly-skilled baby boomers in STEM fields are retiring, and STEM jobs are growing three times faster than non-STEM jobs.² These STEM jobs pay family-sustaining wages – providing an opportunity for students from low-income families to break the cycle of poverty.



Meeting the Demand

Impacting the Community

142,743 total participants

101,907 visitors and school groups

40,836 outreach participants

21,205 school field trip students

Exceeding Visitor Expectations



*Average rating based on online reviews

"You don't have to be a young person to enjoy all the sights and exhibits featured. I guarantee it will bring out the kid in you ☺" – *Trip Advisor Review*

"Local authentic, kid friendly, hands on colorful, sensory stimulating science! What's not to love about that?" – *Facebook Review*

"We have visited the museum multiple times because of the programs they offer. The best part is when the kids pull you from exhibit to exhibit excited to show YOU what they have learned." – *Trip Advisor Review*

Reaching Underserved Audiences

69% of school group students and outreach program participants are low-income.

Kids' Discovery Expo presented by Senator Pat Browne offered over 1,500 visitors free Center admission to participate in hands-on science activities and learn about services offered by community organizations throughout the Lehigh Valley.



*Photo courtesy of Senator Pat Browne

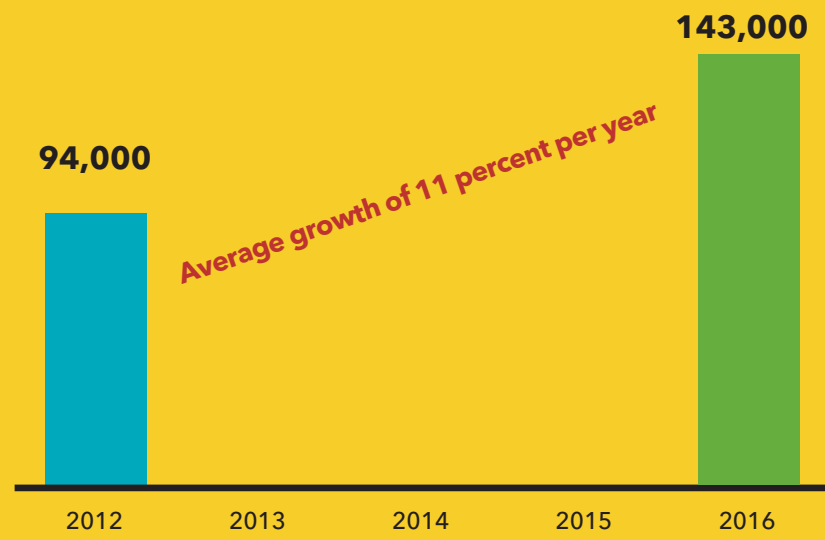
Our Challenge

U.S. students lag behind in math and science.³

In 2015-16, in Pennsylvania, 76% of 4th graders and 58% of 8th graders were proficient in science. In the Lehigh Valley, score results were mixed, with proficiency scores as low as 17% in urban schools.⁴

Footnote:
1. Rothwell, J., 2013. The Hidden STEM Economy. Washington, DC: Brookings. <https://www.brookings.edu/wp-content/uploads/2016/06/TheHiddenSTEMEconomy610.pdf> (accessed November 2, 2016).
2. "Projections of Jobs and Education Requirements Through 2018" Maltese, Adam V. and Robert H. Tai. 2011.
3. 2015 Trends in International Mathematics Study (TIMSS).
4. Pennsylvania System of School Assessment (PSSA) test scores for 2015-16.

Community Participation



Making Science FUN!



Interactive Exhibit Experiences included Animal Grossology, our Summer 2016 Featured Exhibit.

Live Science Shows, like our Slime Science Live! quiz show, were held summer weekends and holidays.

"Our family visited this past weekend! We enjoyed the Animal Grossology AND getting slimed!!!"

- Facebook review



Summer Camp sessions included video game design, amusement park physics, spy camp, animation, forensics, slime, space, and more!



Feature Programs engaged visitors in hands-on science.

Eggcellent Adventures

Ice Cream Wars 8.0

Record Visitor Days

December 29, 2015

Arctic Paws Sled Dog Show • 1,341

January 9, 2016

Ice Cream Wars • 1,841

March 12, 2016

Star Wars Day • 2,309



Scout Programs offered the opportunity to earn exclusive Da Vinci Science Center badges.

Impact Numbers

In-building Attendance

101,907; 51% increase since 2011

Membership

3,721 member households;
78% increase over 2015

Summer Camp Attendance

596 participants;
19% increase over 2015

Supporting STEM Education

Impact Numbers

School Field Trips

21,205 students from
80 school districts

Outreach Programs

40,836 participants;
172% increase since 2011

Teacher Days of Training

858 days



School Field Trips included new hands-on workshops like Keva Construction.

"The experience was wonderful. The students love the first and second floor exhibits, the Crime Solvers workshop, and [Live Science] show. The second-floor exhibits tied in particularly well with our STEM curriculum. Thank you."

- Joanne McCluskey, Math and Science Teacher from
Lester D. Wilson Elementary in Pittstown, NJ

"Best place yet for a field trip."
- Denise Hall, 4th Grade Teacher from Bridge Valley
Elementary School in Furlong, PA

Professional Development
for Teachers,
like the award-winning
Greater Allentown Math Science
Partnership (GAMSP),
advanced teacher proficiency.



STEM Summer Literacy
programs reduced summer
learning loss.

Pop-Up Maker Spaces in the Neighborhood Improvement Zone (NIZ)
sparked students' creativity through integration of science with the arts.

The level of students' enthusiasm was extremely
high with some classes reporting 100% attendance.
"This never happens!" commented one teacher.

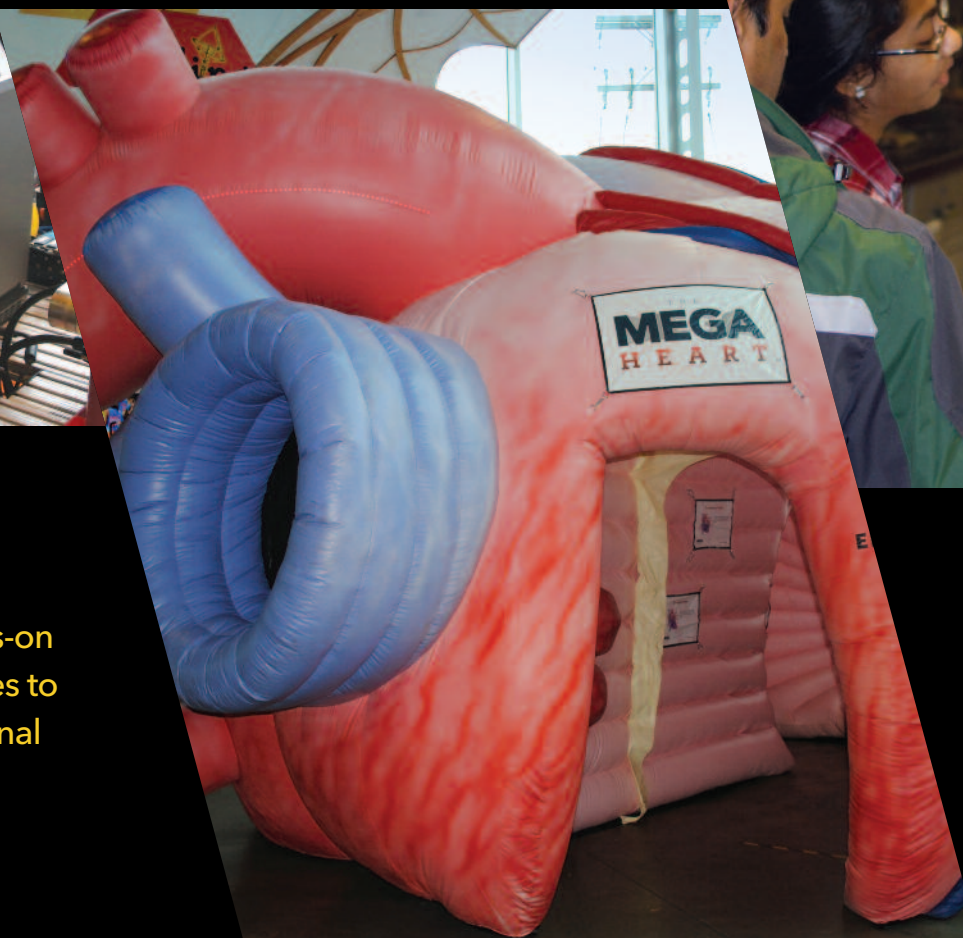


Inspiring a 21st Century Workforce

Lehigh Valley Festival of Art, Science, and Technology (FAST) combined maker activities with the integration of the arts and science through hands-on science experiences.



I Heart My Heart connected visitors with Lehigh Valley Health Network professionals.



Family CodeFest engaged visitors in hands-on computer science activities to commemorate the national Hour of Code.



Science Fair mentors helped students achieve honors at regional and state science competitions.



Meet the Scientist programs exposed students to science in practice.



Women in Science and Engineering (WISE) Field Trip Day connected students with female practicing STEM professionals.



Impact Numbers

Making Connections

5,331 students interacted with STEM Professionals; among those surveyed, 80% reported an increased interest in STEM

Lehigh Valley FAST

4,200 attendees with more than 100 exhibitor tables from artists, scientists, and engineers

Family CodeFest

569 single-day visitors

Science Fair Awards

20 PJAS Regional Award winners in the Allentown School District

Advancing Social and Economic Vitality

Vision for Our Future



Current Site



Additional Site



Expanded Outreach

Da Vinci Children's Discovery Center

Allentown, PA

Repurposing to a state-of-the-art STEM educational facility for children under the age of 8.

Da Vinci Science City

Easton, PA

Exploring, in partnership with the City of Easton, the feasibility of a major science center and aquarium complex in the city's scenic waterfront area. This additional site will be a major new tourist attraction, a significant driver of economic development, and a dynamic resource for STEM education in the Lehigh Valley.

Da Vinci Outreach

Across the Lehigh Valley

Expanding professional development for educators and student outreach with emphasis on underserved populations.

Expanding Impact

720,000
Total
Participants

142,743
Total
Participants

40,836
Outreach

101,907
Allentown
Site

2016

80,000
Outreach

600,000
Easton
Site

40,000
Allentown Site

2021

Economic Benefit:

- **200** permanent full-time equivalent jobs
- **\$45 million** in direct economic activity
- **\$100 million** in total economic activity annually
- Developing a **21st century STEM workforce**



Lin Erickson and Governor Tom Wolf at CEO Roundtable in January, 2017.

"A visit to Da Vinci can spark a lifetime passion for a young child and set them on a path for success. The Lehigh Valley and our entire state will benefit from the work that takes place in this expanded facility."

United States Senator Robert Casey, Commonwealth of Pennsylvania

"This project has the potential to not only raise Easton's profile, but also to generate job growth in related businesses and industries."

United States Representative Matt Cartwright, Commonwealth of Pennsylvania, 17th District

"I applaud the Da Vinci Science Center's efforts to cultivate broad-based interest in STEM learning and STEM careers throughout northeastern Pennsylvania. The Wolf Administration believes that investing in STEM education is critical to ensure a future pipeline of skilled workers to grow Pennsylvania's economy and ensure its continued well-being."

Dennis Davin, Secretary, Department of Community and Economic Development

"This is a transformational project for the City of Easton and for the Lehigh Valley."

Don Cunningham, President and CEO, Lehigh Valley Economic Development Corporation

"The Chamber believes there's nothing more important than vibrant urban cores. Hats off to Mayor Panto and the very bright future for the City of Easton."

Tony Iannelli, President and CEO, Greater Lehigh Valley Chamber of Commerce

"The Center already is a Lehigh Valley treasure. Bringing Da Vinci Science City to Easton would be a terrific next step in our city's artistic, cultural and educational renaissance."

Alison R. Byerly, Ph.D., President, Lafayette College

STRENGTHENING COMMUNITIES



Facts, Figures, and Friends Behind Our Work

Our Supporters

July 1, 2015 to June 30, 2016

Honor Roll Giving*

Honor Roll Giving recognizes all donors whose financial commitments have supported the Da Vinci Science Center during the most recently completed fiscal year.

\$100,000+

The Harry C. Trexler Trust
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\$50,000+

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United Way of the Greater Lehigh Valley and
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James Muñoz
Nestle Waters

Lifetime Achievement: J. Robert Lovett, Ph.D.

At the 2016 Hall of Fame Awards Gala, the Da Vinci Science Center bestowed its highest honor, the Lifetime Achievement Award, on its founding chairman, J. Robert Lovett, Ph.D. Dr. Lovett has been instrumental to the Da Vinci Science Center's success at every stage of its development: establishing the Center as an independent non-profit organization in 1999, merging the Center with Leonardo Da Vinci's Horse, Inc. in 2003, and moving the facility to Cedar Crest College in 2005. Today, he is leading efforts to explore how the Center can better serve low-income youth - further demonstrating his lifelong commitment to investing in education and his community.





Volunteer Leadership - Frank Schweighardt, Ph.D.
 Frank K. Schweighardt, Ph.D. has been an integral member of the Da Vinci Science Center community since 2005, serving as a board member, interim CEO, the creator of the Inventors' Lab Program, and a dedicated mentor to Allentown School District science fair contestants and future scientists. As a chemist and a holder of more than 40 American and foreign patents, Frank is an inspiration to aspiring young scientists.



Inventors' Lab Program
 Under Dr. Schweighardt's direction, 18 4th-8th graders participated in the yearlong Inventors' Lab Program in 2015-16. Since its inception, two students enrolled in the program have earned US patents and one student has earned a provisional patent.

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 US2020 Citizen Schools
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Lensi Nikolov
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 Stanley Wax
 Wegmans Food Markets Employees
 Susan Ellis Wild
 Jennifer Woody
 Ronaldo Nito Yamamoto
 Scott and Nicole Yeager
 Debbie Zuech-Smyrl
 Carl and Debra Zvanut

Staff Honor Roll
The Staff Honor Roll recognizes staff whose financial commitments have supported the Da Vinci Science Center during the most recently completed fiscal year.

Sharon Alexander
 Judy Belaires
 Mary Ellston
 Lin Erickson
 Jenifer Gilio
 Maureen Michael
 Joe Schoenly
 David Smith
 Dennis Zehner

**Does not include in-kind gifts. +Deceased*

Lifetime Giving Societies*
Lifetime Giving Societies recognize donors who have made significant cumulative financial commitments since 2002.

The Founder's Society: \$1,000,000+
 W. Beall and Marlene+ Fowler
 Bob and Sandy Lovett
 PA Department of Education/
 Allentown School District
 PA Redevelopment Assistance
 Capital Program
 PPL

The Legacy Society: \$500,000+
 Air Products
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The 1995 Society: \$100,000+
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 UGI Utilities, Inc.
 Wells Fargo

The Laureate Society: \$50,000+
 BB&T
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 Laurene Ryan
 Troan Family Foundation
 Hap and Marcia Wagner

Leonardo Society*
The Leonardo Society is a giving society for individuals who make an unrestricted gift of \$1,000 in a year to support Da Vinci Science Center operations.

Victor and Jackie Agostinho
 Greg and Tamara Altonen
 George and Judy Arangio
 Gladys Barclay
 Hank and Joanne Barnette
 Rob and Kristen Bennett
 Rex and Terri Boland
 Stephen and Marcella Breininger
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 W. Douglas and Marguerite Brown
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 Alfred and Jill Douglass
 Ted and Amy Douglass
 Brian and Sherri Eckert
 Mark and Lin Erickson
 Gene and Jane Ervin
 Paul and Kym Farr
 Kevin and Stacey Fogash
 Steve and Jeanne Follett
 Beall Fowler
 Robert and Susan Gadomski
 Sally Gammon
 Yan Gao
 Mike Gausling
 Mark Gottwald and Maureen Michael
 Jack Gross and Sandy Stahl
 Malcolm and Janet Gross

Bill and Mary Ann Heydt
 John Jaffe
 John and Denise Jones
 Joe and Judy Kaminski
 Joseph and Gloria Kern
 Fred and Christine Kimock
 William and Patti Lehr
 Bob and Sandy Lovett
 Ted and Suzanne Lyons
 Chris and Colleen Marshall
 Russ and Marsha Mayo
 Kevin and Laura Michaelis
 William Miers
 Rich and Georgine Milker
 Ed and Anne Miller
 Jim and Jayne Miller
 Joan Moran
 James and Irene Pennington
 Guido and Terri Pez
 JB and Kathleen Reilly
 Edith Ritter
 Maria Rodale
 Steve and Jane Rodgers
 Joel and Beth Rosenfeld
 Joseph and Anmarie Roy
 Laurene Ryan
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 Susan Schierwagen
 Frank and Yvonne Schweighardt
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 Richard and Michele Sniscak
 Vince and Michelle Sorgi
 Joseph and Karen Tracy
 Charles Versaggi
 George and Karen White
 Charles and Katy Worrilow
 Andrew Woytek
 Bob and Marilyn Zamboldi

**Members as of December 31, 2016*

Science Catalyst Society*
The Science Catalyst Society is a giving society for individuals or entities who have made contributions of \$5,000 or more to invest in exploring the feasibility of a major expansion of Da Vinci Science Center experiences."

Mark and Lin Erickson
 Mark Gottwald and Maureen Michael
 Bob and Sandy Lovett
 PPL
 Edith Ritter
 Vince and Michelle Sorgi

**Members as of February 15, 2017*



Leading Corporate Partner - PPL
 This year, PPL made possible the opening of the PPL Electric Utilities Energy Zone, a permanent exhibit area featuring an interactive dance floor that creates electric energy when people dance or jump on its tiles.



The Wyoming Horse
 In August, 2015, an eight foot tall bronze sculpture of Leonardo da Vinci's Horse was unveiled in Sheridan, Wyoming. The statue was commissioned by the Wyoming Community Foundation on behalf of the Sheridan Public Arts Committee. This large scale statue is the sixth of its kind on display throughout the world

2016 Women in Science and Engineering (WISE) Forum

The Women in Science and Engineering (WISE) Forum in February featured a dinner followed by a public forum of distinguished females in STEM. The dinner was attended by more than 180 guests, including 90 high school girls who networked with college students, faculty, and female STEM professionals. Following the dinner, a panel of six distinguished female STEM professionals shared their challenges, accomplishments, and encouragement with the standing-room-only crowd.



2016 WISE Forum Distinguished Panelists

- Angela Bakker-Lee, Ph.D.**, Partner and VP, IBM
- Aprille Joy Ericsson, Ph.D.**, Aerospace Engineer and Instrument Manager, NASA Goddard Space Flight Center
- Ellen Kullman**, Chairman and CEO, Retired, DuPont
- Lorraine Soisson, Ph.D.**, Senior Technical Advisor on Malaria Vaccine Development, US Agency for International Development
- Patricia Vera**, Senior Director of Risk Management, Daiichi Sankyo
- Ann E. Weber, Ph.D.**, VP Lead Optimization Chemistry, Retired, Merck Research Laboratories



2015-16 WISE Sponsors

Network Founding Sponsors

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Forum Presenting Sponsor

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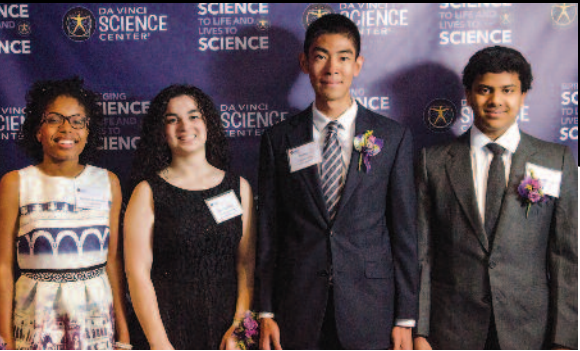
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Dow Chemical Company
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Freshpet
Manufacturer's Resource Center
Martin Guitar
Nestle Waters
PPL
Sanofi Pasteur
St. Luke's University
Health Network
Talen Energy Corporation

2016 Hall of Fame Awards Gala

More than 275 guests attended the Hall of Fame Awards Gala, presented by PPL. The Gala celebrated the accomplishments of students, educators, and community leaders in advancing STEM education and raised funds to support Da Vinci Science Center operations.



Gala and Hall of Fame Sponsors

Presenting Sponsor

PPL

Lifetime Achievement Award Sponsors

Da Vinci Science Center Board of Trustees

Student Excellence Award Sponsors

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Young Scientist Award Sponsor

Thermo Fisher Scientific

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Apprentice Level Sponsors

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Audiovisual Sponsor

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Fowler and Pena Creations

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Express Business Center
Justin Gifford Photography

HALL OF FAME AWARD WINNERS

Lifetime Achievement Award

J. Robert Lovett, Ph.D.

Student Excellence Awards

Sydney Anderson
Samuel Li
Erin Solomon
Yogeshwar Velingker

Young Scientist Award

Vidhyasai Annem

Educator Excellence Awards

Michael Broly
Julia Dweck
Carla Rodrigues

Spirit of Verrocchio Mentorship Award

Karen S. Angello, Ph.D.

Grand Maestro Corporate Award

UGI Utilities, Inc.

Distinguished Female STEM Leadership Award

Sally Gammon

Financials

Statement of Activities		Fiscal Year 2016	Fiscal Year 2015
Years Ended June 30			
REVENUES	Admissions, workshops and programs	914,907	904,769
	Gift shop	192,213	186,764
	Membership	195,719	141,672
	Special events	171,941	131,305
	Other*	415,557	48,859
	Total Revenues	1,890,337	1,413,369
SUPPORT	Contributions	800,808	702,932
	Grants, government	195,937	261,527
	Grants, private	310,824	404,014
	Donated materials and supplies	211,496	211,032
	Total Support	1,519,065	1,579,505
	Total Revenues & Support	3,409,402	2,992,874
EXPENSES	Program services	2,529,544	2,182,979
	Supporting services:		
	Management and general	442,589	441,576
	Fundraising	280,203	250,461
	Loss on sale of assets	—	53,224
	Total Expenses	3,252,336	2,928,240
	Change in Net Assets	157,066	64,634
	Net Assets, beginning	6,319,444	6,254,810
		Net Assets, ending	6,476,510

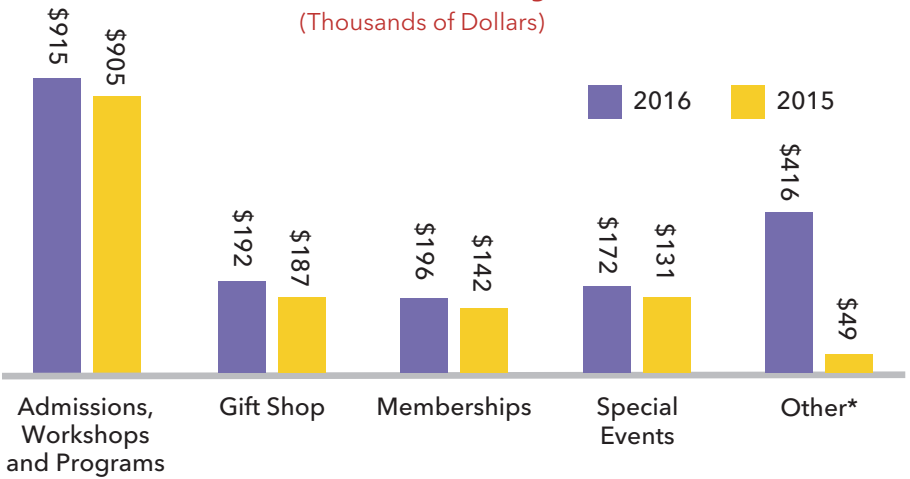
*FY2016 includes \$348,430 from the sale of a Leonardo's Horse Statue

Statements of Financial Position		Fiscal Year 2016	Fiscal Year 2015
Years Ended June 30			
ASSETS	Current Assets:		
	Cash, cash equivalents, CD's	1,180,621	1,249,515
	Accounts receivable	29,016	49,526
	Grants receivable	188,928	187,500
	Unconditional promises to give	147,229	69,165
	Inventory	18,704	19,059
	Prepaid expenses	153,867	219,216
	Total Current Assets	1,718,365	1,793,981
	Noncurrent Assets:		
	Property and Equipment, net	6,116,285	6,320,622
LIABILITIES	Unconditional Promises to give	34,000	—
	Total Noncurrent Assets	6,150,285	6,320,622
	Total Assets	7,868,650	8,114,603
	Current Liabilities:		
	Current portion of long-term debt	52,008	49,948
	Accounts payable and other liabilities	33,859	140,415
	Accrued expenses	100,255	62,115
	Deferred revenue	263,237	398,606
	Refundable advances	—	3,655
	Total Current Liabilities	449,359	654,739
NET ASSETS	Long-term debt, less current maturities and unamortized costs*	942,781	1,140,420
	Total Liabilities	1,392,140	1,795,159
	Net Assets:		
		Unrestricted	5,668,109
		Temporarily restricted	808,401
		Total Net Assets	6,476,510
		Total Liabilities and Net Assets	7,868,650

*FY2015 Long-term debt less current maturities and unamortized costs were restated as of July 1, 2014 to reflect a change of accounting principle.

Earned Revenue by Source

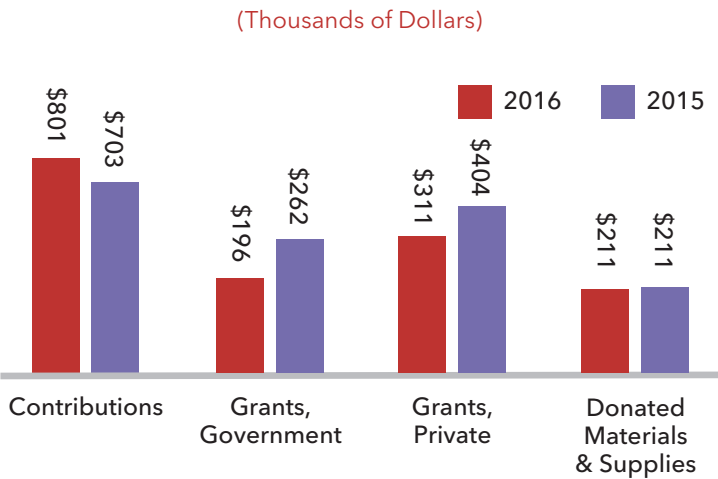
(Thousands of Dollars)



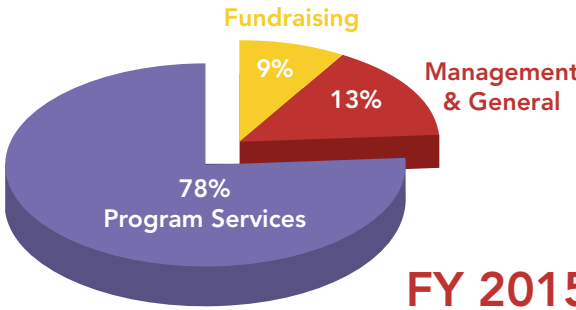
*FY2016 includes \$348,430 from the sale of a Leonardo's Horse Statue

Support by Source

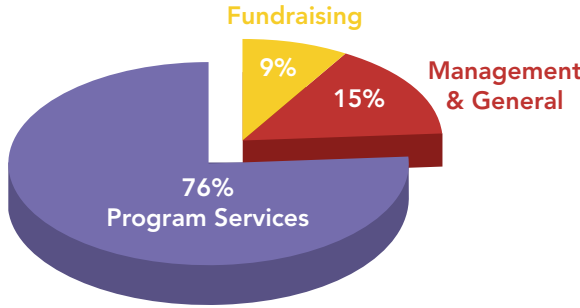
(Thousands of Dollars)



FY 2016 Expenses

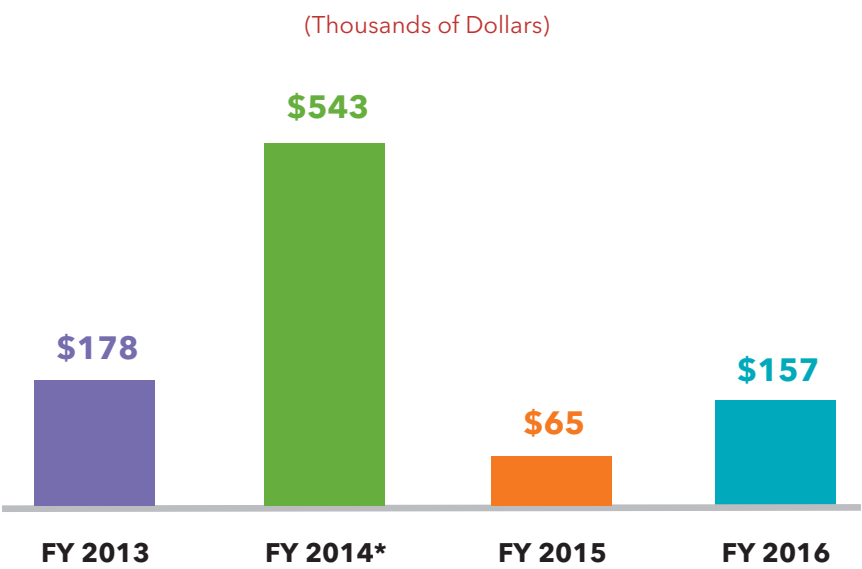


FY 2015 Expenses



Financial Trend Net Income

(Thousands of Dollars)



*FY2014 includes a \$500,000 PA RACP grant for facility renovations



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Studies show that during summer breaks, students can lose up to three months of grade level equivalency in math and reading. Help us stop that Summer Slide by supporting the STEM summer learning experiences led by the Da Vinci Science Center – including our summer camps, field trips, outreach programs, and our featured travelling exhibit Goose Bumps! The Science of Fear. These programs present STEM subjects to kids informally, playfully, and in ways that relate to their interests. With generous support from the community, scholarships will be available for at-risk youth to participate in these programs. Please help us provide children with the skills they need to stay on track all while having FUN!!

The Da Vinci Science Center offers sponsorship and support opportunities, including planned gifts, at a range of financial levels. For more information, visit davincisciencecenter.org/support for details or call the Center's Philanthropy Office at 484.664.1002, Ext. 102, and help us inspire the next generation of scientists, inventors, and engineers!



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