



DA VINCI
SCIENCE
CENTER®

EXPANDING IMPACT
Investing in Our Region



DA VINCI
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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





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

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

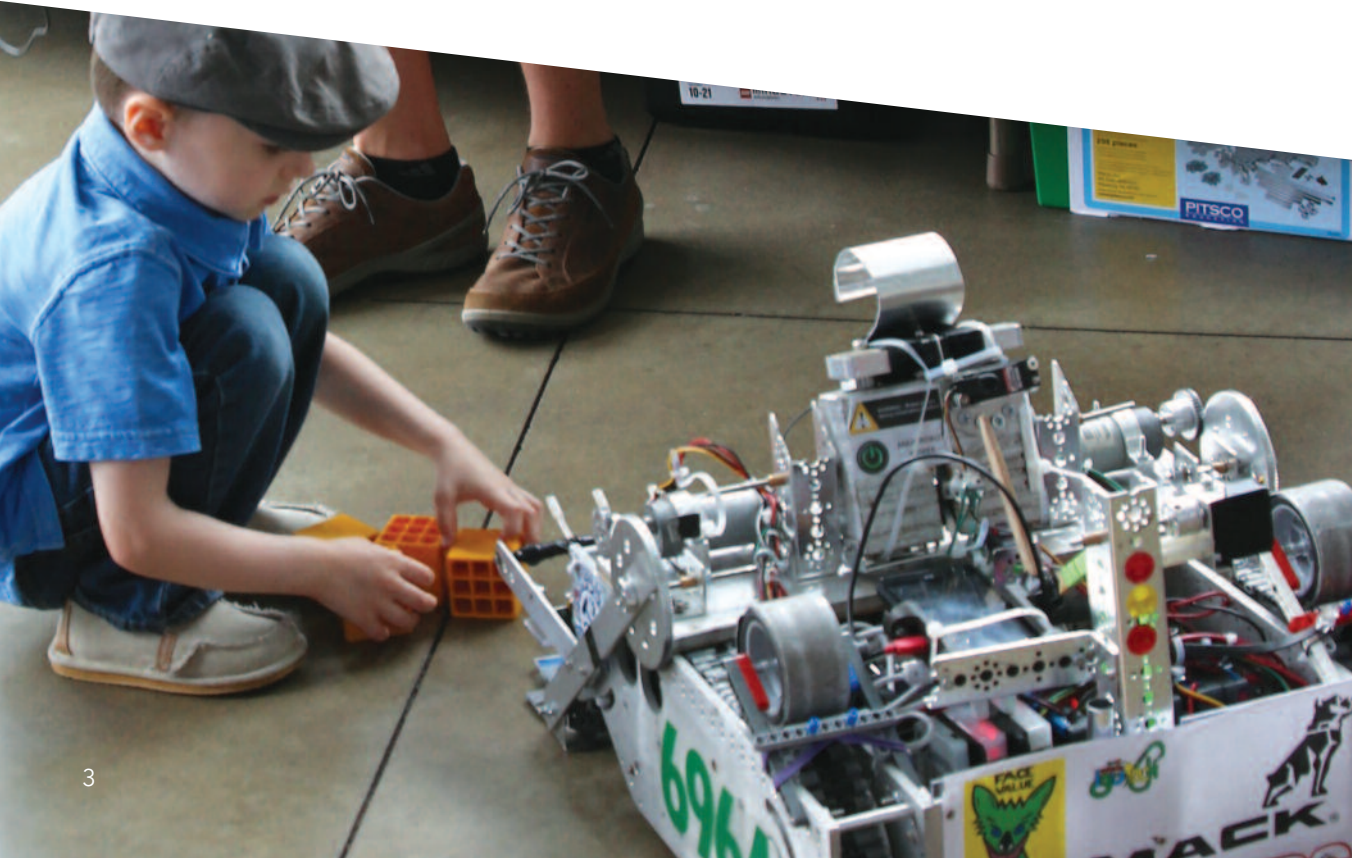
The Demand for STEM Education

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.



Our Challenge

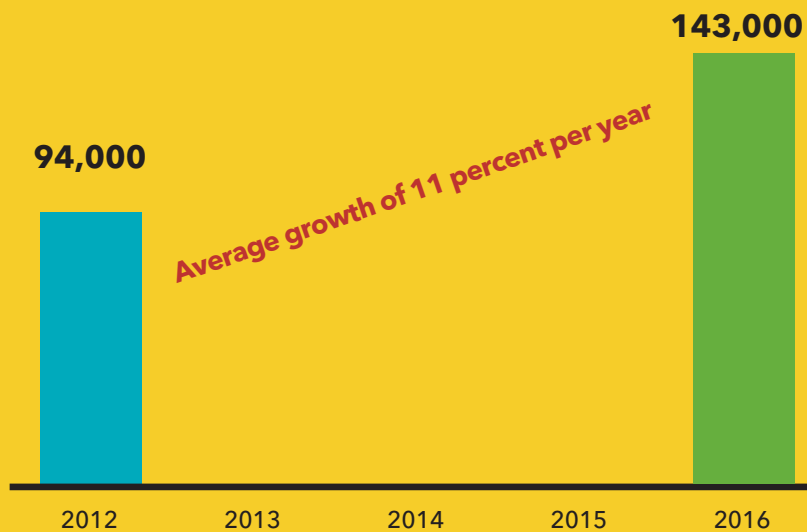
U.S. students lag behind in math and science.³

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



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

Making Science FUN!

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

- Facebook review

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.



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

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



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.

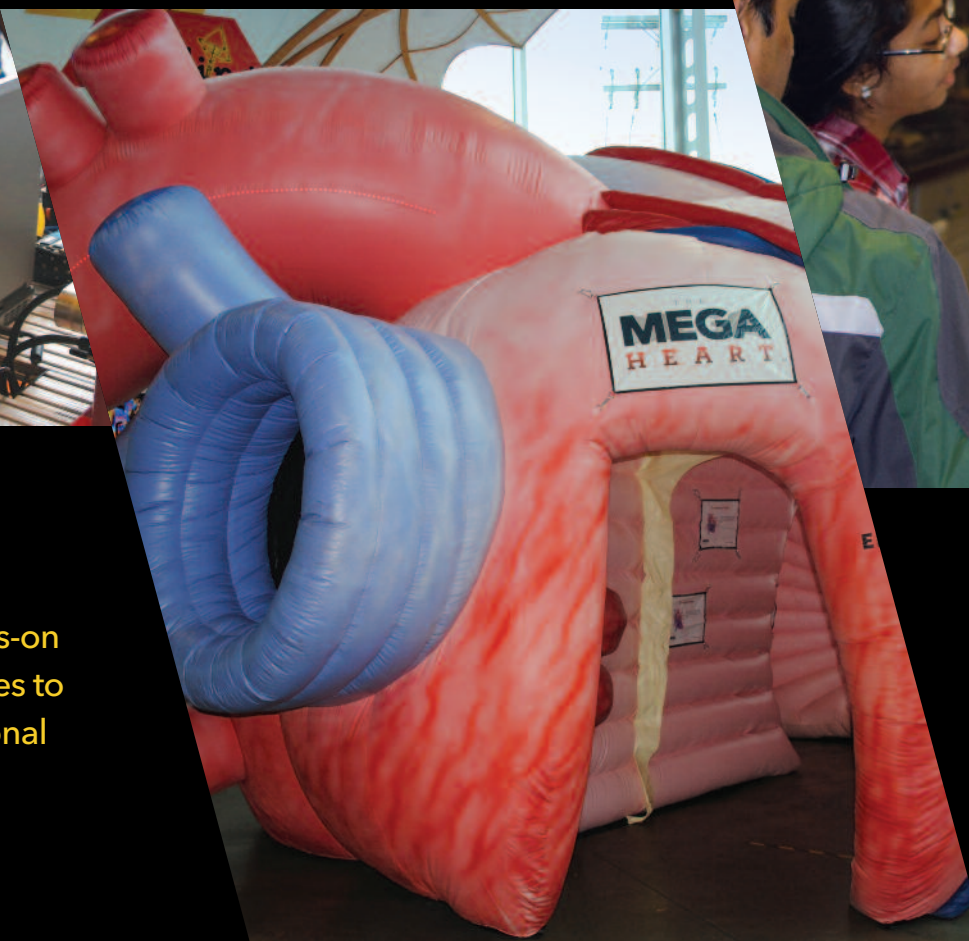


Inspiring a 21st Century Workforce

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.



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



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



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

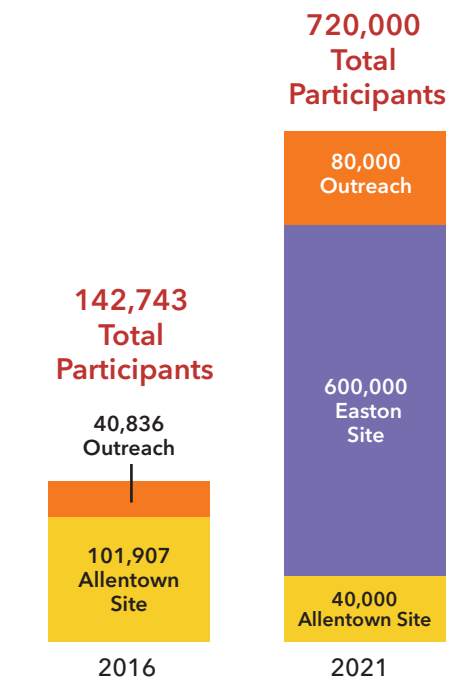
Exploring, in partnership with the City of Easton, the feasibility of a major science center and aquarium complex in the city's scenic waterfront area. This additional site will be a major new tourist attraction, a significant driver of economic development, and a dynamic resource for STEM education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



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**

"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

ENDORSEMENTS



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
PA Department of Education / Allentown
School District
PPL
Vince and Michelle Sorgi
Wyoming Community Foundation

\$50,000+

ATAS International, Inc.
United Way of the Greater Lehigh Valley and
Bosch Rexroth Corporation

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Millersville University
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.

Norris, McLaughlin & Marcus
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J.B. and Kathleen Reilly
Edith Ritter
Robert F. Hunsicker Foundation
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George and Karen White
Chuck and Katy Worrilow
Andrew Woytek
Robert and Marilyn Zamboldi

\$500+

Allentown School District Foundation
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Bruce and Judy Palmer
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Spillman Farmer Architects
Step By Step Learning
Stevens & Lee
Alexander and Ruth Torok
US2020 Citizen Schools
Ilene Wood

\$100+

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Rick Kern
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Moravian Academy
Michael A. McGrail

Lensi Nikolov
Northstar Team Development
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Ray O'Connell
Eugene Pashuck and Lesley Chow
Pennsylvania State University - Lehigh Valley
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Michelle Wasno
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
The Donley Foundation
The Harry C. Trexler Trust

The Discovery Society: \$250,000+

Agere Systems
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The Dorothy Rider Pool Health Care Trust
James Fuller
Lucent Technologies Foundation
Frank and Yvonne Schweighardt
Vince and Michelle Sorgi
Wyoming Community Foundation

The 1995 Society: \$100,000+

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UGI Utilities, Inc.
Wells Fargo

The Laureate Society: \$50,000+

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Norris McLaughlin & Marcus
PA Dept. of Community and Economic Development
PPL Susquehanna LLC
RCN
Rider Pool Foundation
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
Jim and Melissa Brooks
W. Douglas and Marguerite Brown
James and Cynthia Bus
Greg Butz
Lee and Dolly Butz
Dave and Pam DeCampi
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 Mockock
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
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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.



2015-16 WISE Sponsors

Network Founding Sponsors

B. Braun Medical
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Forum Presenting Sponsor

Daiichi Sankyo, Inc.

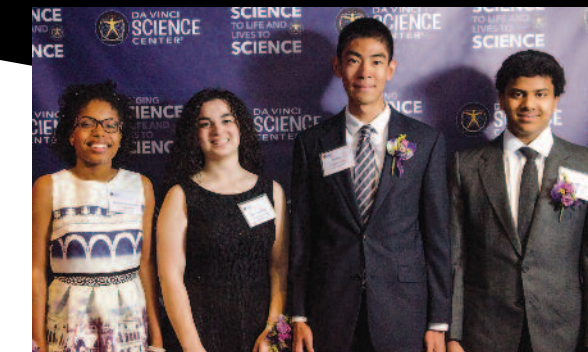
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Freshpet
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Martin Guitar
Nestle Waters
PPL
Sanofi Pasteur
St. Luke's University
Health Network
Talen Energy Corporation

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.



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

Gala and Hall of Fame Sponsors

Presenting Sponsor
PPL

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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	6,319,444

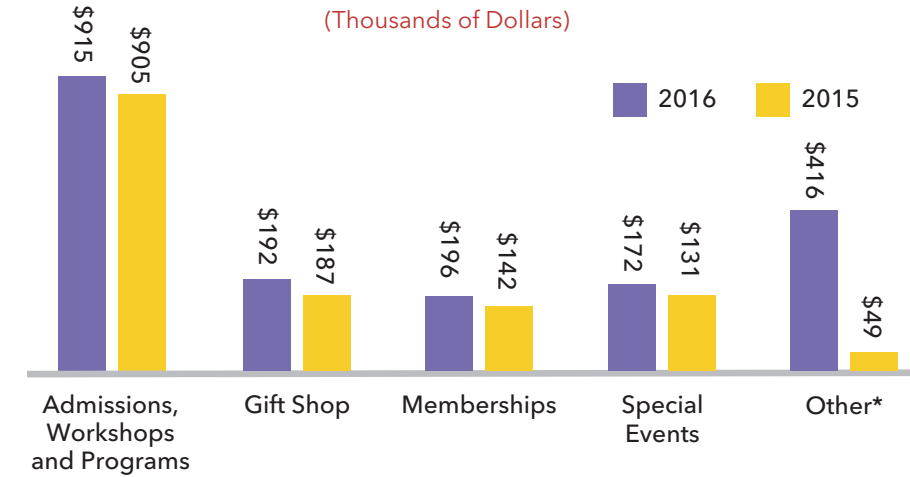
*FY2016 includes \$348,430 from the sale of a Leonardo's Horse Statue

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
Unconditional Promises to give	34,000	—	
Total Noncurrent Assets	6,150,285	6,320,622	
Total Assets	7,868,650	8,114,603	
LIABILITIES	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
Long-term debt, less current maturities and unamortized costs*	942,781	1,140,420	
Total Liabilities	1,392,140	1,795,159	
NET ASSETS	Net Assets:		
	Unrestricted	5,668,109	5,818,274
	Temporarily restricted	808,401	501,170
	Total Net Assets	6,476,510	6,319,444
Total Liabilities and Net Assets	7,868,650	8,114,603	

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

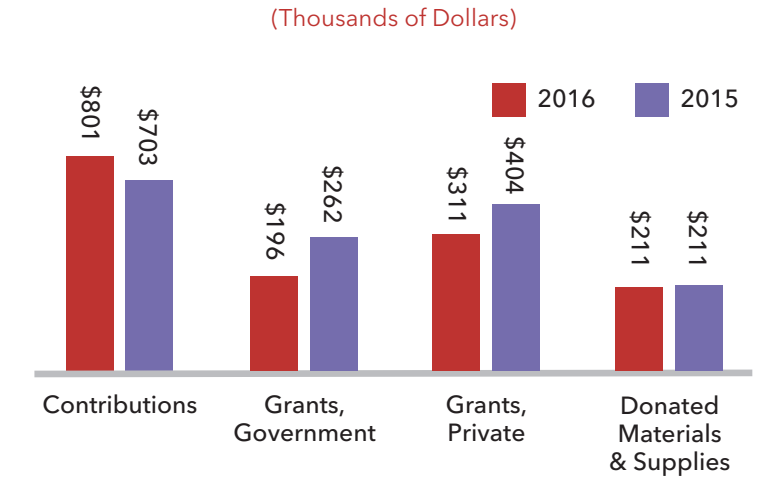
Earned Revenue by Source

(Thousands of Dollars)

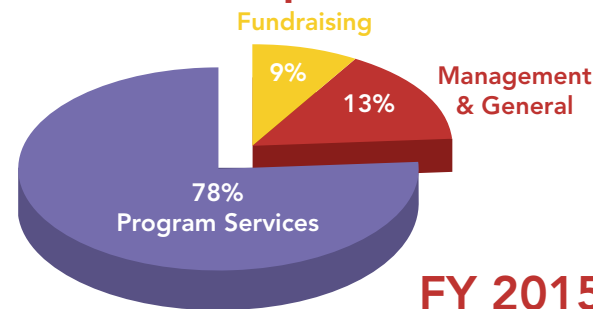


Support by Source

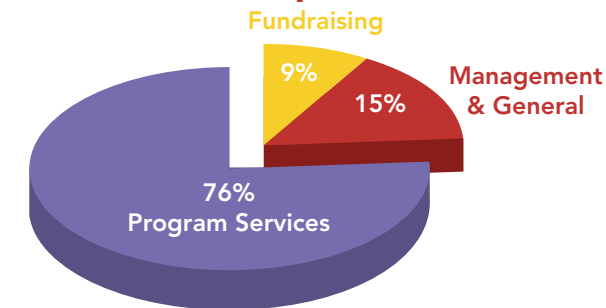
(Thousands of Dollars)



FY 2016 Expenses

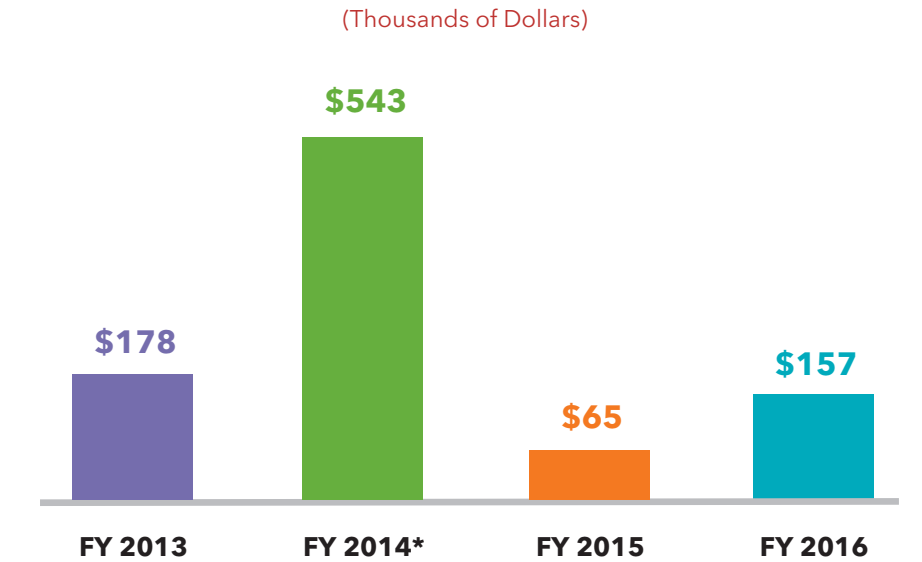


FY 2015 Expenses



Financial Trend Net Income

(Thousands of Dollars)



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



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**As of January 31, 2017*

Make Your Impact: Help Stop Summer Learning Loss

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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