



DA VINCI
SCIENCE
CENTER®

2021 **COMMUNITY IMPACT REPORT**



FULL STEAM AHEAD ●●●●●●●●



DEAR FRIENDS,

We are proud to report that the Da Vinci Science Center is moving full STEAM ahead, offering a full array of exhibits and educational programming at its current site, bringing back valued team members, and expanding staff to support the development of the new Da Vinci Science Center at PPL Pavilion in downtown Allentown. Your generosity throughout the pandemic has sustained us during a challenging year and provided tremendous support for the development of a major new science center that will help address disparities in educational opportunity magnified by COVID-19.

Since early 2020, the COVID virus has dictated how the Science Center could engage with the community safely; we were forced to continue reimagining how to bring science to life and lives to science. We slowly transitioned from 100% virtual and outdoor experiences to limited-capacity indoor exhibits and programs in order to keep everyone safe. To date we have distributed more than 11,000 at-home STEAM kits to students and continue to offer virtual programming to many schools.

Thanks in great part to your unfaltering support, the Science Center fully resumed operations in June 2021; with updated health and safety measures. The Cedar Crest facility opened to the public allowing families to reconnect with their favorite exhibits and participate in a variety of summer camp programs. A record-breaking number of visitors (over 28,000) – many of them sporting their favorite dinosaur outfit – came out for the summer’s traveling exhibit, Expedition: Dinosaur, Rise of the Mammals! Also, together with our partners, we once again were able to offer hands-on science learning programs in schools and at community sites.

In addition, and again with the help of many of you, we awarded more than \$10,000 in Linny Fowler STEAM scholarships for summer camps, which is four times the amount awarded in a typical year.

The dedication and hard work of our staff, board, and volunteers are the reasons we were able to pause, regroup and reimagine how we could continue to bring science to life and lives to science during the pandemic and beyond. Our people are why the science center is stable and well-positioned for growth, and we owe them our deepest gratitude.

The pandemic not only highlighted and deepened economic disparities but spotlighted racial inequities that persist in our community and throughout the country. The Da Vinci Science Center continues on its journey to center equity, formally incorporating Diversity, Equity, Inclusion and Accessibility (DEIA) as a key focus area within our Strategic Plan. We recognize that science literacy empowers individuals, spurs economic development and contributes to a healthy, vibrant community. To that end, we are committed to providing a diverse and inclusive workplace and to centering equity in our current exhibit and programming experiences, as well as in plans for the new facility.

We are at once thrilled and humbled by the support that the new Da Vinci Science Center at PPL Pavilion has received to date as we move forward with plans for groundbreaking in the spring of 2022.

While the Da Vinci Science Center continues to move full STEAM Ahead, we remember those who shared our vision from the beginning. We are honored to recognize Dr. J. Robert “Bob” Lovett, founding chair of the organization and emeritus trustee, as the first recipient of the Visionary Leadership Award. Dr. Lovett’s bold vision and incredible generosity will influence the evolution of the Da Vinci Science Center for generations to come.

On behalf of the board, staff and volunteers, thank you for your ongoing support.

Sincerely,

James E. McLean, WMS (He/Him)
Chairman of the Board

Lin Erickson (She/Her)
Executive Director and CEO

OUR MISSION

To bring science to life and lives to science

OUR VISION

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

- Delivering enjoyable experiences for families and schools that encourage interest in science
- Providing leadership in science, technology, engineering, art, and mathematics (STEAM) education
- Inspiring an outstanding 21st century workforce
- Contributing to social and economic vitality



STEAM IN ACTION

Science, Technology, Engineering, Art, and Mathematics are the building blocks for the world around us. STEAM-centered education is a holistic approach that promotes critical thinking, problem solving, teamwork and creativity while making connections between schools, the community, and the workplace.

SCHOOL PARTNERSHIPS

The widespread interest in the interdisciplinary STEAM approach to education has fueled the number of area schools engaging the Da Vinci Science Center STEAM Team in professional development and classroom programming, including:

ALLENTOWN SCHOOL DISTRICT (ASD)

In year 2 of the Next Century Allentown STEM Elementary Initiative, Science Center educators provided training for 4th and 5th grade teachers on the Smithsonian Science for the Classroom Curriculum; 1756 students in grades 4 and 5 participated in 467 virtual classroom visits with hands-on STEM kits, a Science for the Classroom reader, and a student notebook; and students participated in 2 virtual field trips hosted by The Flying Classroom. Also, the Science Center professional developers are helping ASD teacher-leaders prepare for the Next Generation Science Standards coming soon to Pennsylvania. This initiative is made possible by The Century Fund. PPL generously provided support for the purchase of the Smithsonian readers.

CARBON-LEHIGH INTERMEDIATE UNIT (CLIU)

With a four-year grant from the U.S. Department of Education Professional Development for Arts Educators program, the Science Center continued collaborating with CLIU to prepare teachers to use technology in visual arts and STEAM classrooms. Teachers from 11 districts and 3 charter schools further developed their skills and comfort with block coding, digital design, and fabrication equipment, and they are giving their students opportunities to work on physical computing projects using the classroom sets of electronics components in the grant lending library.

LEHIGH VALLEY CHILDREN'S CENTERS (LVCC)

The Science Center partnered with LVCC through a Lehigh County COVID relief grant to provide engaging hands-on STEAM kits for families, offer virtual professional development for teachers, and equip science learning centers with COVID safe learning materials in each of its 19 preschool classrooms with 297 students. In 2022, with support from PNC Bank Foundation, this project will expand to Northampton and Carbon counties, providing STEAM learning opportunities to teachers, students, and families in another 17 classrooms with 227 preschool students.

JEWISH DAY SCHOOL OF THE LEHIGH VALLEY

What began as a creative solution to fill the need for a science teacher during the onset of the pandemic has evolved into a partnership in which Da Vinci Science Center educators teach students in grades 3 to 8 in a STEAM Lab, engaging students in months-long, hands-on projects.



BEST SAFE DAY OUT WITH THE KIDS

Science brought us the vaccines that are helping to keep our community safe and healthy. Science also guided the organization as the center reopened while protecting the health and safety of our visitors. The Science Center's popular year-round exhibits sparked curiosity in visitors of all ages."

ENGINEERS ON A ROLL

A combined engineering lab, playscape, and climbing space that engages youth in technology, math and engineering through play.

KEVA BUILD IT UP!

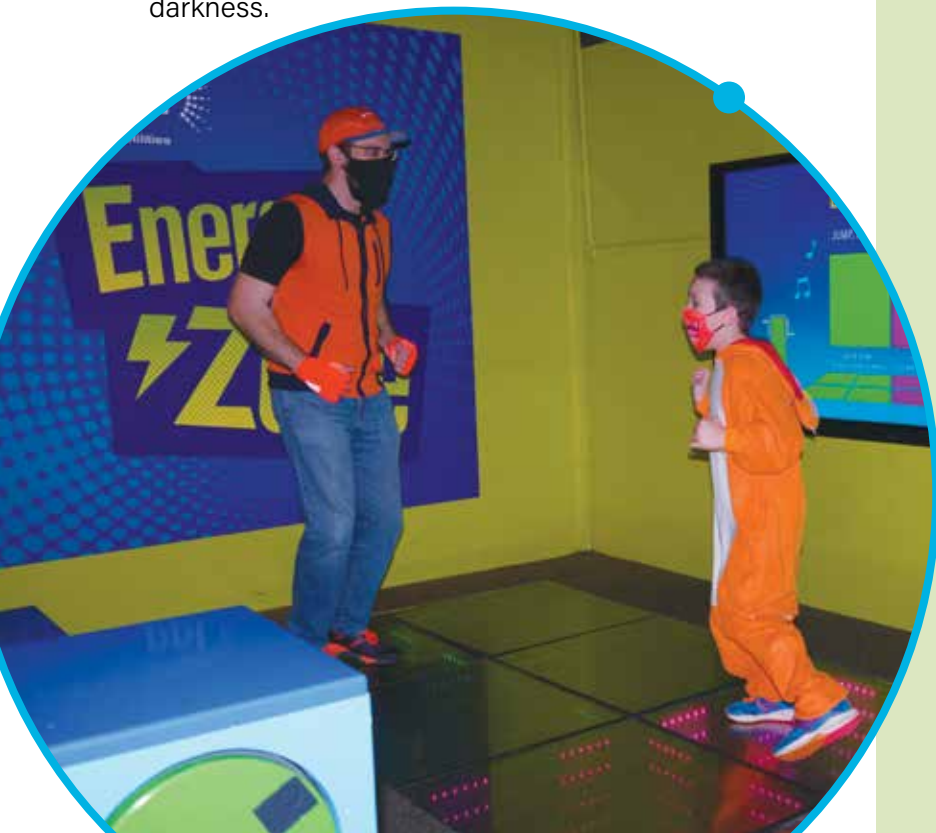
A studio that invites tinkerers of all ages to create castles, skyscrapers, and other masterpieces with the popular KEVA planks.

PPL ELECTRIC UTILITIES ENERGY ZONE

Exhibits that explore the nature of energy and invite visitors to dance and let sparks fly while learning how much energy it takes to light their homes.

TUNNEL VISION

A hit with youngsters who have to feel their way through a 72-foot maze-like tunnel in complete darkness.



The summer's traveling exhibit, Expedition: Dinosaur Rise of the Mammals, drew 28,027 dinosaur lovers from throughout the region and goes on record as being one of the Science Center's most popular traveling exhibits.

DID YOU KNOW?

Science centers don't just spark curiosity, for many they inspire a life-long love of science.

Studies show:

- The impact of science centers grows as individuals visit more frequently—interest in science amongst youth and adults roughly doubles for every extra visit up to around 5 or more visits.
- The more science capital (defined as science-related qualifications, interest, literacy and social contacts) a young person has, the more likely they are to study science in higher education.

“*My 4 year old son enjoyed all the exhibits. We stayed for 3 hours but he could have stayed for 5! The best is we did not do everything so there are things to look forward to when we come again.***”**

STEAM BY THE NUMBERS

FISCAL YEAR 20-21

PROGRAM PARTICIPATION	
GENERAL ADMISSION	18,347
GROUP ADMISSION	240
EARTHWALK EXPLORER EXPERIENCE	202
SUMMER AND SCHOOL'S OUT DAY CAMPS	2,614
SCOUT PROGRAMS	45
STEAM VIRTUAL PROGRAMS	17,035
STEAM IN-PERSON PROGRAMS	354
JEWISH DAY SCHOOL SCIENTIST-IN-RESIDENCE	8,695
PROFESSIONAL DEVELOPMENT	297
OTHER	797
TOTAL PARTICIPATION	48,626



The STEAM Team assembled and distributed more than 11,000 hands-on STEAM kits to students participating in virtual programming this year. These kits made it possible for the students and their families to engage in hands-on STEAM experiences even when they could not participate in person.



CELEBRATING & INSPIRING THE NEXT GENERATION



Captain Barrington Irving was the keynote speaker at the 2021 Virtual Hall of Fame. The first Black man to fly solo around the world, pilot, author, and entrepreneur, Irving encouraged students to let STEAM lead them to success.

Captain Irving also hosted virtual field trips for Allentown School District 4th and 5th graders through his Flying Classroom initiative.



HALL OF FAME 2021

Since 1999, the Da Vinci Science Center has bestowed its annual Hall of Fame Awards to students who show a unique passion for science and educators who utilize innovative approaches to inspire enthusiasm for science. Additionally, professionals and companies are honored for their commitment to STEAM education and support of the Science Center's mission. A special thanks to Megan Deller, Business Team Leader, Quality, Mack Trucks for hosting this year's virtual gathering.

This year's recipients once again reaffirmed that an investment in STEAM education is an investment in our future.

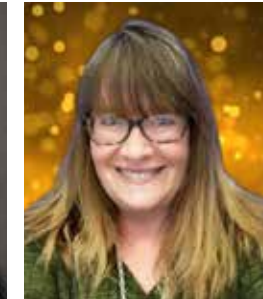
EDUCATOR EXCELLENCE AWARDS



Stacey Chunko



Cynthia Dale



Denise Route



Matt Erway

STUDENT SCHOLARSHIP AWARDS



Purva Gupta



Allison Liu



Anhiktha Manunatha



Angelina Xu

EREL STEM SCHOLARSHIP RECIPIENT

The Erel STEM Scholarship is funded by Fusun Bubernack, philanthropist and entrepreneur, in honor of her parents, Hasan Fehmi & Sabahat Erel, and their commitment to the importance of quality education and the pursuit of excellence.



Lucy Clayton

THANK YOU TO THE HALL OF FAME PROGRAM PRESENTING SPONSOR



And thank you to the Award and Scholarship sponsors:

ATAS International; B. Braun; Corbenic Partners, LLC; Just Born; PPL; Vince and Michelle Sorgi; Michael J. Stoudt, Jr., CPA and Stoudt Associates, LLC; Victaulic

WISE INITIATIVE

The WISE Initiative was established in 2014 as part of the Science Center's broader commitment to supporting women and girls in STEAM. The WISE Initiative is dedicated to encouraging girls who aspire to follow a STEAM career path and creating a supportive community of women employed in STEAM fields.

Within the WISE Initiative is the WISE Network, a large group of women working in STEAM fields coming together to address three primary goals: 1) to directly mentor young girls who are interested in STEAM; 2) to connect professional women employed in STEAM fields, creating a community of STEAM professionals who support one another through networking, social events, and mentoring; and 3) to bring passion, insight, expertise, and resources to advise the Da Vinci Science Center on strategies for developing girls' interest and achievement in STEAM.



EXECUTIVE ADVISORY COUNCIL

The WISE Initiative is overseen by an Advisory Council made up of leaders from area corporations, colleges and universities, and organizations serving women and girls.

CO-CHAIRS

Joy Karnas, Ph.D., Professor of Biological Science & Genetic Engineering, Director of the Honors Program, Cedar Crest College

Jean Vincent, Ph.D., Sr. Vice President, R&D Specialty Additives, Research, Development & Innovation, Evonik Corporation

MEMBERS

Jennifer Allenbach, Chief Mission Delivery Officer, Girl Scouts of Eastern Pennsylvania

Erin Armstrong, Associate Director, Sterilization, B. Braun Medical Inc (past co-chair)

Mary Armstrong, Ph.D., Charles A. Dana Professor of Women's, Gender & Sexuality Studies and English Chair, Women's, Gender & Sexuality Studies Program, Lafayette College

Fusun Bubernack, President, ET&T; Voice, Data, MSP, & Security Services Expert

Megan Deller, Business Team Leader, Quality, Mack Trucks

Lin Erickson, Executive Director and CEO, Da Vinci Science Center

Bonnie Hall, VP, Global Quality & Continuous Improvement, Crayola

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Katy WorriLOW, Ph.D., Founder and CEO, LifeAire Systems, LLC and Adjunct Professor, Penn State Univ Lehigh Valley (past co-chair)



2021 8TH ANNUAL WISE FORUM A VIRTUAL GATHERING

MODERATOR

Julie L. Gerberding, M.D., M.P.C., Chief Patient Officer, Strategic Communications, Global Public Policy, and Population Health, Merck & Co., Inc.

PANELISTS

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Jaye Gardiner, Ph.D., Postdoctoral Research Associate, Fox Chase Cancer Center and IF/THEN® Ambassador

Lisa Nibauer, B.S., MBA, Executive Vice President, OraSure Technologies

Elsa Reichmanis, Ph.D., Professor and Carl Robert Anderson, Chair, Department of Chemical and Biomolecular Engineering, P.C. Rossin College of Engineering and Applied Science, Lehigh University

Annette Van Dien, B.S., M.S., Senior Structural Engineer, D'Huy Engineering, Inc.





SALUTE TO A GUIDING STAR

CURIOSITY HALL PRESENTED BY THE LOVETT FAMILY

In recognition of the prominent role played by the Lovett family in the Science Center's development over more than two decades, the Board of Trustees announced that Curiosity Hall in the new Da Vinci Science Center at PPL Pavilion in downtown Allentown would be named for the Lovett family.

In this grand courtyard, which will serve as a central gathering space in the new science center, visitors will be inspired by Leonardo da Vinci's insatiable curiosity. The monumental 60-foot human figure shown here will take its inspiration from Leonardo's Vitruvian Man.



VISIONARY LEADERSHIP AWARD

The Da Vinci Science Center is pleased to announce that Dr. J. Robert "Bob" Lovett, founding chair of the organization and emeritus trustee, is the first recipient of its Visionary Leadership Award. The award was presented to Dr. Lovett in recognition of his bold vision and incredible generosity that continues to influence the evolution of the Da Vinci Science Center.

Dr. Lovett, a Da Vinci Science Center trustee since 1997, continues to influence the development of the science center today. In 1999, Dr. Lovett led the group of influential community leaders who established what was then the SMART Discovery Center in Bethlehem, Pa, as an independent non-profit organization and then served as its Chair from 1999-2001. In 2003, Dr. Lovett played a pivotal role in the decision to move the science center to the campus of Cedar Crest College, dramatically increasing the Center's ability to offer hands-on science experiences for youth, families, and schools throughout the region.

Dr. Lovett also was instrumental in the 2003 merger between the Discovery Center and Leonardo da Vinci's Horse, Inc. (LDVHI) resulting in today what is known as the Da Vinci Science Center. Today, Dr. Lovett is championing efforts to explore how the science center can better serve youth from low-income households in Allentown, further demonstrating his lifelong commitment to investing in education and the community.





FULL STEAM AHEAD

INCREASING IMPACT TODAY

Over the next year, we will continue to build upon our signature programs, including the Next Century STEM Elementary Initiative in the Allentown School District, STEM Summer Learning Programs, the Young Inventors Program, and the WISE Initiative, to develop students' 21st century skills and spark lifelong interest in STEAM.

In addition, we will prepare to launch the STEAM Career Ladder Program, a series of out-of-school-time experiences for middle school and high school students helping to prepare them for future college studies and careers. Students in grades 6 through 12 will earn credits toward a STEAM Certificate by participating in educational programs, volunteering as Science Center educators, and completing paid internships with the Science Center and corporate partners. Student recruitment will begin in early 2023.

INVESTING IN TOMORROW

As we continue our high impact work in the community, we are also moving forward with the construction of the new Da Vinci Science Center at PPL Pavilion. We expect to break ground in spring 2022. We aren't simply relocating into a larger space, we are reimagining the ways in which we bring science to life and lives to science using the power of 21st century technology fueled by the creative energy of a renowned team of artists, designers, engineers, and scientists.

The Da Vinci Science Center at PPL Pavilion is made possible thanks to the generous support of our community.



WE ESPECIALLY WANT TO THANK THE FOLLOWING LEAD SUPPORTERS:

PUBLIC

Commonwealth of Pennsylvania
City of Allentown
Allentown Neighborhood Improvement Zone Development Authority

PRIVATE

PPL Electric Utilities, title building sponsor

OUR SINCERE GRATITUDE TO THE CAMPAIGN COMMITTEE

Vincent Sorgi, President & CEO, PPL Corporation, Committee Chair

Rick Bucher, President & CEO, Victaulic

Greg L. Butz, President & CEO, Alvin H. Butz, Inc.

Arthur Dorn, Market President, Truist

Lin Erickson, Executive Director & CEO, Da Vinci Science Center

Hon. Jane R. Ervin, CEO, Community Services For Children, Retired

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Julien Sauvagnargues, President & Regional Representative Officer, Olympus Corporation of the Americas

MaryEllen Dickey, Chief Philanthropy Officer, Da Vinci Science Center

A special thanks to members of the **Science Catalyst Society** for believing in the vision before it was fully formed. For a list of members see our website.

CENTERING EQUITY

The Da Vinci Science Center is committed to providing a diverse and inclusive workplace and centering equity in its exhibit and programming experiences. As the new science center is developed, hiring local talent who reflect the community is a priority.

The Science Center began its journey in centering equity several years ago with women and the LGBTQ+ communities and has continued with a specific focus on race. Equity is embedded in its strategic plan with the goal of establishing a culture that is welcoming to all.

HONOR ROLL OF GIVING

The Honor Roll of Giving recognizes donors whose financial commitments have supported the Da Vinci Science Center during the most recently completed fiscal year, July 2020 to June 2021.

1,000,000+

PA Department of Community and Economic Development Gaming and Tourism Economic Development Fund

500,000+

PPL

100,000+

Air Products
The Century Fund
County of Lehigh - Covid Relief Block Grants
PA Commonwealth Financing Authority Covid-19 Cultural and Museum Preservation Grant
PA Department of Community and Economic Development
SBA Cares Act US SBA Payroll Protection Program

50,000+

ATAS International, Inc.
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25,000+

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Institute of Museum and Library Services
PHMC
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10,000+

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Lehigh Valley Community Foundation
James and Irene McLean
National Science Foundation/Lehigh University
Reach Cyber Charter School
UGI Utilities, Inc.

5,000+

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1,000+

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William Donbar
Nicole Wentline

*Science Center Staff Member



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

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Greg and Tamara Altonen
George and Judith Arangio
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LIFETIME GIVING

RENAISSANCE SOCIETY \$5,000,000+

Commonwealth of Pennsylvania

THE FOUNDER'S SOCIETY \$1,000,000+

Air Products
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PPL
Vince and Michelle Sorgi
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THE LEGACY SOCIETY \$500,000+

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THE DISCOVERY SOCIETY \$250,000+

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Alvin H Butz, Inc.
The Ryan Family Foundation
Frank and Yvonne Schweighardt
ATAS International, Inc.
St. Luke's University Health Network
SBA Cares Act US SBA Payroll Protection Program

THE 1995 SOCIETY \$100,000+

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Reach Cyber Charter School
Rider Pool Foundation
Sanofi Pasteur
Schyler Kemps Foundation
Troan Family Foundation
Hap* and Marcia Wagner

* Deceased

STATEMENTS OF ACTIVITIES

BASE OPERATIONS

Fiscal Year Ended June 30	2021	2020
REVENUES		
Admissions, workshops and programs	688,186	933,837
Gift shop	43,368	80,975
Membership	118,783	183,082
Special events	131,300	135,625
Other	5,206	34,436
TOTAL REVENUES	986,843	1,367,955

SUPPORT

Contributions	993,502	551,878
Grants, government	806,176	91,102
Grants, private	338,988	513,998
Donated materials & supplies	58,935	66,389
Total Support	2,197,601	1,223,367
TOTAL REVENUES & SUPPORT	3,184,444	2,591,322

EXPENSES

Program services	2,108,072	2,303,423
Supporting services:		
Management & general	431,718	443,956
Fundraising	232,759	233,054
TOTAL EXPENSES	2,772,549	2,980,433

CHANGE IN NET ASSETS

Base Operations	411,895	(389,111)
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NEW FACILITY CAPITAL PROJECT*

Revenues	2,365,790	523,975
Expenses	488,277	904,831
Change in Net Assets New Facility	1,877,513	(380,856)
Change in Net Assets Combined	2,289,408	(769,967)

* Funding for 2020 planning and design activities for a new facility received in fiscal year 2021

STATEMENTS OF FINANCIAL POSITION

Fiscal Year Ended June 30	2021	2020
ASSETS		
CURRENT ASSETS		
Cash, cash equivalents	1,301,852	486,465
Accounts receivable	62,783	35,403
Grants receivable	116,818	144,052
Unconditional promises to give	163,783	360,059
Inventory	13,057	14,332
Prepaid expenses	90,798	154,185
Other	--	52
Total Current Assets	1,749,091	1,194,548
NONCURRENT ASSETS		
Restricted Cash	771,172	171,250
Property and Equipment, net	6,245,094	5,510,537
Unconditional Promises to give	532,803	253,750
Total Noncurrent Assets	7,549,069	5,935,537
TOTAL ASSETS	9,298,160	7,130,085

LIABILITIES

Current Liabilities:		
Current portion of long-term debt	411,868	230,378
Line of Credit	--	193,374
Accounts payable & other liabilities	202,447	26,614
Accrued expenses	151,093	168,964
Deferred revenue	177,748	204,633
Total Current Liabilities	943,156	823,963
Long-term debt, less current maturities & unamortized costs	357,873	598,399
TOTAL LIABILITIES	1,301,029	1,422,362

NET ASSETS

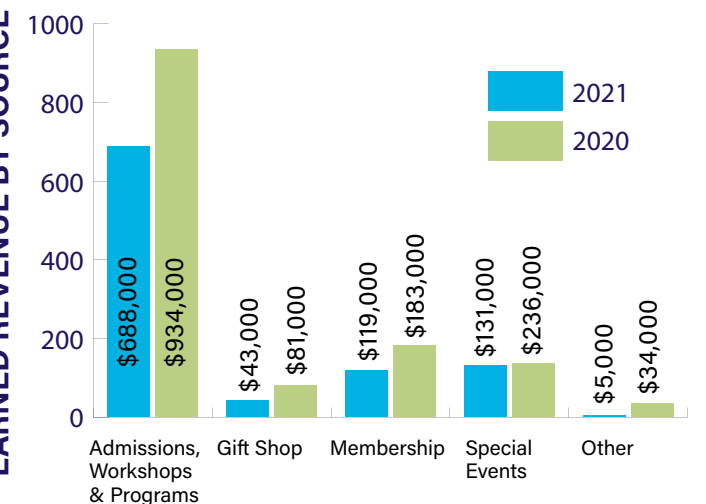
Unrestricted	6,182,601	4,797,010
Temporarily restricted	1,814,530	910,713
Total Net Assets	7,997,131	5,707,723
TOTAL LIABILITIES & NET ASSETS	9,298,160	7,130,085

2020 EXPENSES

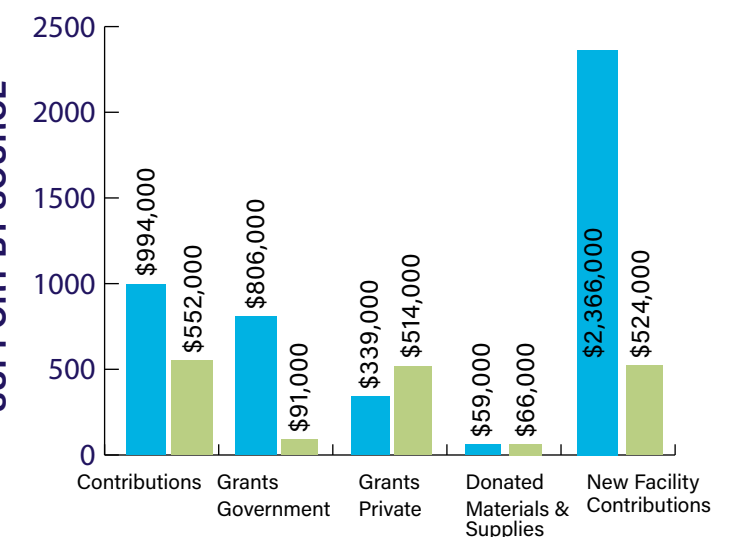


- 6% FUNDRAISING
- 12% MANAGEMENT & GENERAL
- 23% NEW FACILITY ACTIVITIES
- 59% PROGRAM SERVICES

EARNED REVENUE BY SOURCE



SUPPORT BY SOURCE



2021 EXPENSES



- 7% FUNDRAISING
- 13% MANAGEMENT & GENERAL
- 15% NEW FACILITY ACTIVITIES
- 65% PROGRAM SERVICES

PLEASE DONATE NOW

HELP US CONTINUE TO BRING SCIENCE TO LIFE AND LIVES TO SCIENCE

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YOUR DONATION WILL

- **INSPIRE CURIOSITY** in all our children so they become the problem solvers and creative thinkers of tomorrow
- **EMPOWER EDUCATORS** with the tools needed to encourage learning and interest in STEAM
- **CONTRIBUTE TO** creating a scientifically literate, healthy and vibrant community

THE PHILANTHROPY DEPARTMENT

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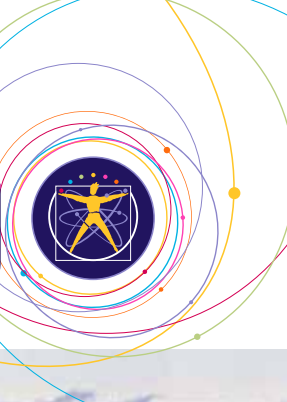
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Brian Strohecker, Senior Director of Business Development and Operations

*As of December 2021

inspiring **curiosity**
FOR GENERATIONS TO COME



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