



*Connecting Science  
& the Community*

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Academy of Science – St. Louis

Since 1856





## Academy of Science

St. Louis

SINCE 1856

The Academy, one of the oldest in the country, was formed in 1856 to foster the advancement of science in St. Louis and the knowledge of science around the world.

Many St. Louisans fondly recall the Academy's Museums of Science and Natural History in Oak Knoll Park. The Academy was a strong supporter of the establishment of the Planetarium, the Zoo-Museum District and the Science Center, and transferred ownership of its vast museum collection to the Science Center. While maintaining a separate charter and identity, the Academy has outreach center offices and a library at the Science Center. In 2005, the Academy completed a successful capital fund campaign for this new Academy Home space.

**Academy Mission:** To promote the advancement of science and encourage public interest in and understanding of the sciences.

The Academy's staff size and budget are lean, thanks to an enormous web of professional scientists and engineers from the public, private and academic sectors volunteering their time for the community outreach initiatives.

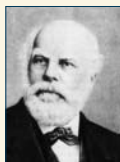
### HISTORICAL TIMELINE

1850

1855

1860

1865



1856—Led by Dr. George Engelmann, The Academy of Science of St. Louis was formed by the key science and education leaders of St. Louis. A state charter was requested and a library and museum were developed. The impressive collection included mounted and preserved specimens of mammals, birds, reptiles and fish from Charles P. Chouteau.



## SPEAKERS FOR SCIENCE

*Connecting Science & the Community*

**Scientists in the Classroom**—Our country is woefully short on science and math teachers, and schools have had to cut back on science field trips—all at a time of heightened need for a scientifically literate public. Speakers for Science is an almost unfathomable no-cost resource, comprised of more than 700 working scientists from the public, private and academic sectors.

Schools contact the Academy of Science with requests for speakers on topics as varied as plant science, archaeology, biostatistics, genetics, DNA, rainforest ecology and unmanned spacecraft. Each year brings requests for experts on newly emerging areas of science or topical issues generating public interest. The Academy also collaborates with school districts to present one-on-one career explorations and science career forums for the critical middle-school age groups. Over the past two years, more than 20,000 students were inspired, enlightened and enthralled by these unique opportunities to connect with scientists.

Additional Speakers for Science programs include a Scientists Speakers' Bureau for community organizations and Science Seminar Series held in collaboration with notable institutions and at venues throughout the region. 2009 continues to bring series dedicated to Science Leadership: Entrepreneurs, Science and History, New Science Frontiers and more. All are available at no cost or for a minimal reservation fee.

1870

1875

1880

1885

1881—The Academy library is the largest of its kind west of the Allegheny Mountains and contains nearly 3,000 books and 8,000 issues of scientific periodicals.

1869—Academy museum collections and library grow with the help of the Smithsonian Institution. *Transactions*, the Academy's internationally disseminated scientific journal, helps establish St. Louis' reputation as a center for science.



## GREATER ST. LOUIS SCIENCE FAIR

*Bringing Science Inquiry to Life*

For more than 60 years, the Science Fair has been an amazing science catalyst for students in kindergarten through high school. Under the leadership of the Academy, hundreds of educators, scientists and science advocates work year-round to bring science inquiry to life for more than 55,000 students in the St. Louis area participating each year in the Science Fair. School districts select their top student projects and submit them to the Regional Science Fair, held at Queeny Park.

The Monsanto Fund and Pfizer continue their traditions of supporting scientific learning and discovery. Each year there are 3,000 top projects, representing more than 250 public and private schools, on display and eligible for further awards. High school students with honors-level projects further compete for scholarship awards and represent the St. Louis area at the International Science and Engineering Fair.



## FOREST PARK BIOBLITZ

The St. Louis BioBlitz is a 24-hour flash inventory of the ecosystem of Forest Park. This Academy initiative epitomizes the collaborative mission in pairing scientist team leaders with science advocates of all ages. BioBlitz produces a timely and relevant snapshot of this ecological jewel. Partners include Forest Park Forever, The Explorers Club, St. Louis Parks Department, Missouri Botanical Garden and a host of community, public and academic organizations. The 2006 BioBlitz was proud to host an advance team planning for National Geographic's National Parks BioBlitz.

1890

1895

1900

1905



1903—The William McMillan family donates a building at 3817 Olive Street to house the Academy's expansive collections and library. *Transactions* continues to be an internationally respected and distributed scientific journal.



## JUNIOR ACADEMY OF SCIENCE

*Inspiring Tomorrow's Scientists*

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More than 400 middle and high school students from public, private and home schools across the region experience hands-on opportunities in science, engineering and medicine through the Junior Academy. Corporations, science organizations and universities open their labs and research areas to these teens at a critical time...when they are laying the science and technology path for their future. By extracting DNA at the Genome Sequencing Center, meeting with leading-edge aerospace engineers at Boeing, experiencing Go-Kart Physics at UMSL, working in the dissection lab at Saint Louis University and having access to the best university libraries, Junior Academy members realize the importance of an interdisciplinary approach to discovery and a strong, early grounding in math and science. Recognizing that each child has potential, Junior Academy membership is open and available to all middle and high school students in the area and offers challenging and engaging science competitions and opportunities for a full range of academic levels. Thanks to donations, Junior Academy memberships start at \$30 and scholarships are available to any student in need.

### HISTORICAL TIMELINE—continued

1910	1915	1920	1925
	1915—Membership broadens to include teachers, laboratory staff and college students.		1923—A special memorial issue of <i>Transactions</i> is published to honor the outstanding work of Academy member, Dr. Charles Henry Turner, researcher and educator.
	1917—Library consists of 50,000 volumes.		



1930

1935

1940

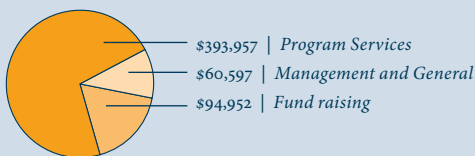
1945

1930s-1941—Academy sponsors work of scientists during depression—including investigation and collection of artifacts of Native Americans in the Mississippi River Valley. Historical and valuable artifacts became part of the collections of the Academy, the Smithsonian and The Missouri Resource Museum.

ACADEMY OF SCIENCE  
**STATEMENT OF ACTIVITIES**  
*For the Year Ended December 31, 2008 and 2007*

	2008	2007
<b>REVENUE</b>		
<b>Public Support</b>		
Grant revenue	\$ 228,230	\$ 201,169
Contributions	48,593	28,907
Membership dues	113,725	106,205
Donated goods and services	40,435	38,474
Special events	86,037	82,957
Other income	672	1,927
<b>Total Public Support</b>	<b>517,692</b>	<b>459,639</b>
<b>OPERATING EXPENSES</b>		
Program services	393,957	402,862
Management and general	60,597	50,816
Fund raising	94,952	99,572
<b>Total Operating Expenses</b>	<b>549,506</b>	<b>553,250</b>
<b>TOTAL INCOME (LOSS)</b>	<b>(\$ 31,814)</b>	<b>(\$ 93,611)</b>
<b>OTHER REVENUE &amp; EXPENSES</b>		
Investment income (loss)	(239,111)	55,482
Depreciation	24,459	24,808
In-kind occupancy	40,668	40,668

**OPERATING EXPENSES 2008**



*\*2007 Financials audited. 2008 Financials pending audit.*

**HISTORICAL TIMELINE—continued**

1950	1955	1960	1965
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1958—Academy increases science education. Museums of Science and Natural History are established at Oak Knoll Park. The Hall of Man, the Transparent Woman, the Stories of Flight, and Lighting draw hundreds of thousands of visitors.

ACADEMY OF SCIENCE  
**STATEMENT OF FINANCIAL POSITION**  
*For the Year Ended December 31, 2008 and 2007*

	2008	2007
<b>Current Assets</b>		
Cash	\$ 69,014	\$ 79,938
Accounts receivable	2,800	1,475
Pledges receivable	-	500
Pledges receivable-rent	40,668	40,668
Prepaid expenses	6,180	6,443
Interest receivable	1,150	-
<b>Total Current Assets</b>	<b>119,812</b>	<b>129,024</b>
<b>Investments</b>	444,810	704,106
<b>Pledge receivable - rent</b>	803,194	843,862
<b>Equipment and improvements</b>	300,968	321,428
<b>Total Assets</b>	<b>\$ 1,668,784</b>	<b>\$ 1,998,420</b>
<b>Currents Liabilities</b>		
Accounts payable	\$ 82,590	\$ 76,127
Accrued payroll	14,760	14,680
Accrued compensated absences	11,212	11,339
<b>Total Current Liabilities</b>	<b>108,562</b>	<b>102,146</b>
<b>Net Assets</b>		
Unrestricted	644,310	942,194
Temporarily restricted	903,862	944,530
Permanently restricted	12,050	9,550
<b>Total Net Assets</b>	<b>1,560,222</b>	<b>1,896,274</b>
<b>TOTAL LIABILITIES AND NET ASSETS</b>	<b>\$ 1,668,784</b>	<b>\$ 1,998,420</b>

1970

1975

1980

1985



1971-1984—Academy endorses the St. Louis Zoo-Museum District and development of a Science Center in conjunction with the McDonnell Planetarium. Academy transfers priceless collections but maintains organizational autonomy.

## WAYS TO CONTRIBUTE

**Traditional Gifts**—The Academy donor family includes individuals, corporations, foundations and organizations. Traditional gifts of cash and securities provide support with immediate impact. Gifts to the Dr. George B. Engelmann Legacy Fund guarantee the Academy mission will be as alive in the future as it is today.

**EADS Society**—The Eads Society is a distinguished group of the Academy’s strongest individual supporters. Eads members are invited to special Science Briefings and events throughout the year. The Eads Society starts at \$500 annually and includes Benefactors (\$1,000 annually) and Eads Society Circle (\$2,500 or more annually).

**Academy Members**—Academy members comprise the largest group of supporters of the Academy. Individuals select from a range of membership categories, including the Sponsor (\$250) and Science Passport levels (\$150), which offer exciting hands-on and inside-view opportunities at myriad labs and research facilities. Associate (\$75) and Science Advocate (\$55) levels bring invitations to special events, and discounted Teacher and College Student membership levels make it easy for the entire community to support the Academy mission.

**Gifts of Vision – The Dr. George Engelmann Society** Estate and gift planning is a comprehensive approach that can benefit you, your heirs and the Academy of Science – St. Louis. The objective of planned giving is to maximize the value of your estate for your heirs and for the Academy mission, while reducing your taxes. A bequest in a will, estate plan or trust; Charitable Remainder Trust, offering lifetime income to the donor; or other planned gift options provide a legacy of support for the Academy mission. Please consult your tax advisor or financial planner.

The Wise Giving Seal represents the highest standards of governance, effectiveness and financial responsibility.



1990

1995

2000

2006

**1991-1995**—Academy opens independent science education and outreach office and provides scientists to speak at schools and organizations. Fellows organization formed to honor extraordinary scientists and engineers.

**2006 – 150th Anniversary.** Academy dedicates Outreach & Education Center and Library. 1st Academy BioBlitz. New spirit of community/science collaboration in Science Seminar Partnerships.

**2000**—Academy assumes responsibility for the Greater St. Louis Science Fair.

# Academy of Science

St. Louis

CONNECTING SCIENCE & THE COMMUNITY SINCE 1856™

Yes, I want to have an impact on sustaining student interest and achievement in science and engineering, and advance public understanding of science. Please enroll me as an Academy of Science member.

## Please choose a donation level:

- Eads Circle – \$2,500 - \$5,000
- Eads Society Benefactor – \$1,000
- James B. Eads Society – \$500
- Sponsor – \$250 *(helps sponsor a science seminar or public lecture)*

- SCIENCE PASSPORT** – \$150 *(helps send a scientist to a classroom)*
- Associate – \$75 *(helps provide a science mentor for a local student)*
- Science Advocate – \$55 *(helps sponsor a hands-on science lab or technology workshop)*
- Teacher – \$35
- Other \$ \_\_\_\_\_

## Membership Information: *(please print)*

NAME

ADDRESS

CITY

STATE

ZIP

DAYTIME PHONE

EMAIL

Enroll today at the **PASSPORT** level and receive two **FREE** Passports to Science – insider-view trips and tours to labs, research facilities and out in the field to explore the latest developments in science, engineering and medicine.

## Payment Method

- My check for \$ \_\_\_\_\_ is enclosed. Please make checks payable to: *The Academy of Science – St. Louis.*
- Please charge \$ \_\_\_\_\_ to my:  VISA  MasterCard  American Express  Discover
- Please bill me \$ \_\_\_\_\_ in \_\_\_\_\_<sup>NO.</sup> installments beginning \_\_\_\_\_<sup>MONTH</sup>

ACCOUNT NUMBER \_\_\_\_\_

EXPIRATION DATE \_\_\_\_\_

NAME AS IT APPEARS ON CARD \_\_\_\_\_

SIGNATURE \_\_\_\_\_

**TO JOIN BY PHONE** using a credit card, call 314-533-8586 between 9 a.m. – 5 p.m. Mon. thru Fri., fax form to 314-533-8885, or join online at: [www.academyofsciencestl.org](http://www.academyofsciencestl.org).

### Matching Gift Information:

- I am enclosing my company's matching gift form.
- Processing Center notified. Employer \_\_\_\_\_

### Ways to Get Involved:

- Please e-mail Academy program and partnership updates.
- Please provide information about including the Academy as a beneficiary in my will and/or estate planning.
- I have listed the Academy as a beneficiary in my will.  
Please enroll me as a member of the George Engelmann Legacy Society.
- Please contact me about opportunities to volunteer.

### YOUR MEMBERSHIP ENTITLES YOU TO:

- Periodic donor and community updates on Academy programs and partnerships
- Advance notice of Academy sponsored events, science seminar series and lectures
- Invitation to the Academy's prestigious annual Scientists Awards Dinner

**\$75 Associate** – All of the above plus a one-year gift membership in the Junior Science Academy for the young scientist or engineer in your life (open to all students in grades 6-12 with an interest in science and engineering)

**\$150 Science Passport** – All of the above plus two free *Passports to Science*

**\$250 Sponsor** – All of the above plus two additional *Passports to Science* – bring friends and family to see science in action

**\$500 James B. Eads Society** – All of the above plus invitations to exclusive small group Science Briefings on timely topics in science and engineering with scientists of note

*Make a gift with shares of appreciated stock and receive significant tax advantages. All memberships are 100% tax-deductible unless otherwise noted.*

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Since its inception, the Academy has promoted the recognition of the impressive scientists of St. Louis. This tradition continues with the Academy Fellows' Induction and Annual Outstanding St. Louis Scientist Awards. The Fellows of the Academy is a prestigious association of St. Louis scientists and engineers of national reputation. The Fellows organization creates opportunities to tap into the wealth of science and technology resources in our area for recommendations and insight. Many Academy Fellows are recipients of the Outstanding St. Louis Scientist Lifetime Achievement, Eads, Trustees, or Academy Fellows Awards.

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## Academy of Science

*St. Louis*

SINCE 1856

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