



RICHARD LOUNSBERY  
FOUNDATION

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*Program Report*  
*2013–2019*

## MISSION STATEMENT

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The Richard Lounsbery Foundation aims to enhance national strengths in science and technology through support of research that helps build bridges between outstanding groups outside the US and American science; joint international research between nations in conflict; studies of science and technology components of US policy issues; elementary and secondary science and math education, especially in New York City and Washington, DC; historical studies and contemporary assessments of key trends in the natural sciences; and start-up assistance for establishing the infrastructure of research projects or new fields of research. Among international initiatives, the Foundation has a long-standing priority in French-American cooperation.

The Foundation generally provides seed money or partial support, rarely renews grants for continuing activities, does not normally fund endowments or capital equipment, and aims to achieve high impact by funding novel projects and forward-looking leaders. The Foundation both solicits proposals and welcomes unsolicited inquiries.

(February 2019 revision)

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## PREFACE

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Founded in 1959, the Richard Lounsbery Foundation issues this program report to clarify its interests, evolution, and goals and to relate the aims and accomplishments of its grantees. In 2002, president Frederick Seitz authored a brief history of the Lounsbery family and the formative years of the Foundation. In 2004, president David Abshire began preparing periodic summaries of the work and grant-making of the Foundation. The history and Dr. Abshire's reports spanning the period 2002–2013 can be seen at [rlounsbery.org/giving](http://rlounsbery.org/giving):

- [2009–2013](#)
- [2004–2009](#)
- [2002–2004](#)

This report spans July of 2013 through 2019.

## LETTER FROM THE CHAIR

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February 2020

Grant-making at the Richard Lounsbery Foundation begins with fidelity to the intent of its donors, Vera and Richard Lounsbery. While the Lounsberys did not leave strict direction for their foundation, their enthusiasms were well known, especially to the Foundation's first president, Alan McHenry, and have always guided the Foundation. Dividing their adult lives between New York and Paris, the Lounsberys loved both cities and their scientific and cultural institutions, as they loved both France and the United States.

How to balance a vision first offered in 1959 with the world sixty years later? The present directors of the Foundation continue impressed by the enormous power of science and technology, from reef ecology to the geology of gemstones, from the biology of eyes and brains to the meteorology of dust storms, and thus the security of a long-term grant-making strategy anchored in science and technology. Accordingly, we report the Foundation's recent activity under the themes Research and Exploration, Scientific Diplomacy and International Relations, Biology in Art, Science Education, and History of Science, while maintaining Lounsbery's long-standing priority in French-American cooperation.

### *French-American Cooperation*

In 2016, as the centennial of America's entry into the first World War approached, the Foundation made an unusually large award in memory of Richard Lounsbery, who served as a US Army lieutenant in France during

World War I. Recognizing the importance of reminding and informing Americans about this terrible war, the Foundation became an early supporter of the World War I Centennial Commission's project to build a memorial in Pershing Park on Pennsylvania Avenue in Washington, DC, two blocks from the White House. The Lounsbery gift helped attract additional funds, and members of the commission broke ground on 12 December 2019. We look forward to completion of the memorial in 2021. The Foundation also made several other grants relating to World War I, mainly to encourage new scholarship about French-American dimensions and especially aspects relating to science, technology, and medicine.



Richard Lounsbery

The Foundation proudly continues support of the Richard Lounsbery Award, established in 1978 by Vera Lounsbery in honor of her husband. Presented for the fortieth time in 2019, the award annually honors an outstanding investigator under the age of 45 in biology and medicine. The National Academy of Sciences of the United States and the French Academy of Sciences present the award in alternate years, and we are grateful to these institutions for the attention and luster they give to the Lounsbery Award. The directors of the Foundation voted in 2019 to lift the amount of the award to reaffirm the Foundation's commitment to, and promotion of, scientific exchanges between the United States and France.

### *Research and Exploration*

The Foundation also happily continued supporting joint French-American scholarly and scientific projects. These spanned fields as diverse as paleontology, volcanology, and cognitive neuroscience. In marine science, the Foundation supported expeditions of the National Museum of Natural History (Paris) in the Western Pacific to measure biodiversity, and, with Lounsbery's support, the remarkable cruises of the sailing vessel *Tara* to assess global plankton resulted in a cluster of papers in *Science* magazine. The Foundation continued its support for the nature documentaries of French producer Jacques Perrin, whose 2015 film *The Seasons*, about the evolution of forests over



thousands of years, showed to critical acclaim in the US and many other countries. With Lounsbery support, Perrin is now developing a film about the discovery of the landscape of the American West by European photographers in the 19th century.

### *Scientific Diplomacy and International Relations*

Beyond US-French relations, the Foundation has continued to support projects whose aspects include both science and diplomacy, especially cooperation between experts of nations in conflict or where the practice of science is very difficult. These efforts grew under my predecessors Frederick Seitz (who served as NATO's Assistant Secretary General for Science) and David M. Abshire (who served as US Ambassador to NATO). During 2014–2019 Lounsbery supported cooperative international scientific activities in the Afar region of Ethiopia and Eritrea, Belarus, Cuba, Democratic People's Republic of Korea, Iran and other Middle Eastern nations, Russia, Sudan, and Venezuela. We remain convinced that science is a very special bridge between peoples. This can be equally true for studies of wildlife in Africa, where Lounsbery supported efforts in east, central, and southern Africa, and high-energy physics, where Lounsbery supported American undergraduate physics majors to join international research teams at CERN in Geneva for the summer.

The Foundation was also privileged to assist outstanding investigators in Argentina, whose scientific enterprise came under extreme pressure for economic and political reasons in 2018. Lounsbery also continued its support of the Scholar Rescue Program of the Institute of International Education and the Committee on Human Rights of the US National Academies of Sciences, Engineering, and Medicine.

### *Biology in Art*

A new theme of Lounsbery's grant-making is Biology in Art. This theme arose from the Foundation's seed funding for the effort to obtain and sequence the genome of Leonardo da Vinci by scientists in France (where Leonardo lived during his final years and was buried), Italy (where his father and other relatives were buried, and descendants of his half-brothers still live),

Spain (whose National Library holds 700 pages of his notebooks), and the US (where forensic DNA skills flourish). The Leonardo project showed that molecular biologists, population geneticists, microbiologists, forensic experts, and physicians could work together with other natural scientists and with genealogists, historians, artists, and curators to discover and decode previously inaccessible knowledge and to preserve cultural heritage. The Institute of Fine Arts of New York University and the research laboratories of the Metropolitan Museum of Art jointly conducted a seminal 2018 conference Art Bio Matters. Lounsbery is pleased now also to have supported Yale, Northwestern, and Bordeaux universities, Art Institute of Chicago, New-York Historical Society, and other institutions to explore biology in art.

### *Science Education*

The Foundation has sustained its commitment to science education, especially in the greater New York area. A notably successful effort is the BioBase, for which Lounsbery provided start-up funding. BioBase and its BioBus provide in-depth science programs in state-of-the-art community science labs after school, during weekends, and in the summer. Also innovative are the programs of the Dolan DNA Learning Center of the Cold Spring Harbor Laboratory. Its Harlem DNA Lab administers New York's Urban Barcode Project, which has now fostered more than 500 projects to use molecular biology to study animals, plants, and mushrooms in the metro New York region. In 2019 Lounsbery supported the new Hudson River Park Trust to initiate biology programs and Letters to a Pre-Scientist to demystify STEM careers and, by creating personal connections between working scientists and students from high-poverty schools, empower all students to see themselves as future scientists.

As a small funder, Lounsbery understands, like a farmer, that its greatest leverage is usually in planting a seed or watering a shoot. We have continued to help public entrepreneurs initiate a range of organizations and programs, usually related to the sciences. During the recent period these include the Deep Sea Biology Society (a new professional society), International Quiet Ocean Experiment (a research program to learn about ocean soundscapes and how changes may affect ocean life), United States Coast Guard Museum,

RealClearScience (a website daily aggregating dozens of news articles in sciences), and the Heterodox Academy (which fosters viewpoint diversity on campuses).

The Foundation gladly supports authors to write books that engage the public interest in science and history of science. In coming years, we look forward to publication of biographies of evolutionary biologist Lynn Margulis, geneticist Joshua Lederberg, and the French military liaison to George Washington, Marquis de Chastellux, as well as a book about ecological aspects and consequences of the Berlin Wall and other parts of the once deadly border strip that divided East and West Germany from 1961 to 1989.

## *Reflections*

During the time covered in this report, the Foundation distributed a total of about \$15 million in 176 new awards undergoing review by the full board of directors. Divided among the categories in the tables that follow, where some grants appear in two categories, about \$4.9 million addressed Research and Exploration, \$3.8 million Science and Diplomacy, \$2.1 million Science Education, \$1.4 million Biology in Art, \$1 million History of Science, and \$1.1 million Other. About \$4.3 million involved French-American cooperation. In addition, the Foundation distributed about \$1 million in 125 small grants capped at \$12,000 which undergo less extensive review but mostly for the same themes as the larger grants.

Summarizing the program since 2013, I naturally also reflect on how time has judged actions and strategies of the preceding decade. Standouts include an invitation that the Foundation made in late 2004 to the nascent Wikipedia community that caused its leaders to decide to apply for tax exemption in early 2005 as an educational foundation and enabled Lounsbery to become the first philanthropic organization to support Wikipedia. A 2006 grant assisted formation of the Biodiversity Heritage Library, a consortium of natural history and botanical libraries. That consortium now provides a website with free access to hundreds of thousands of scanned volumes comprising over 57 million pages from the 15th to the 21st centuries. In history of science, the completion in 2008 of the twelve-volume series and

digital database of the papers of Joseph Henry, the American scientist who served as the first Secretary of the Smithsonian Institution from 1846 to 1878, stands as a landmark. Areas of Lounsbery grant-making in the early 2000s thriving on much larger scales today include DNA barcoding for identification of animals, plants, and fungi at the level of species; development of “serious games” for a primary purpose other than entertainment, such as improved health and safety; and science and diplomacy, where Lounsbery remains engaged.

## Transitions

Since our last report, we have mourned the passing of our former president, the Honorable David M. Abshire (1926–2014). The Foundation was pleased to help support the 2018 publication of David’s final book, *The Statesman: Reflections on a Life Guided by Civility, Strategic Leadership, and the Lessons of History*, ably edited by James Kitfield. David transformed many institutions for the better, including Lounsbery. I am personally grateful to David for having woven patriotism so wisely into the Lounsbery mission.

We also lost our esteemed director, physicist Homer A. Neal (1942–2018), but were happy to help launch a fund at the University of Michigan to help American students participate in international collaborations in high-energy physics.

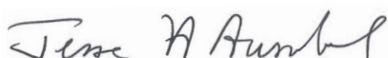
David’s successor, our former Board chair, laser physicist William Happer, resigned from the Foundation to accept a senior position in the US government. Will contributed greatly with his utter candor, deep expertise in many fields of science, not to mention his knowledge of the Russian language. Will always reminded us that Lounsbery should stay sensitive and accessible to those without power and privilege. We also said farewell to our longtime treasurer, Glenn Strehle, who mastered little Lounsbery’s investments with the same skill and humor with which he had served as Vice President for Finance of the Massachusetts Institute of Technology.

In turn, we welcomed June Yearwood as our new treasurer and Elizabeth Holleman Brown as our new corporate secretary and program manager, first assisting and then succeeding Maxmillian Angerholzer III, who became a

Foundation director. Biochemist Marguerite Mangin, equally at home in France and the US, now assists us a consultant, especially with French-American projects.

We welcomed as new directors Catherine Dulac, Higgins Professor of Molecular and Cellular Biology, Harvard University; and Claire E. Max, Professor of Astronomy and Astrophysics, University of California, Santa Cruz, and Director, Center for Adaptive Optics at UCSC. Cell biologist David D. Sabatini assumed the role of vice chair when I succeeded Will as chair. Important continuity and wisdom also come from Harvard professor and former Under Secretary of State R. Nicholas Burns and investor Richard J. McHenry, son of Lounsbery's first president. I am pleased that over the past six years the Board and officers have become more diverse and so have the principal investigators whom we support.

In the spirit of our former chair, Will Happer, the Foundation aims to maximize the share of Lounsbery expenditures that goes to grantees for their work. We keep administrative expenses to a bare minimum, keep applications simple and brief, and reach decisions quickly. A major reason is that the Foundation's directors engage actively and generously with their time and knowledge, especially in the evaluation and selection of applications. I am grateful to the grantees, who make it possible for the Foundation to do its work; to my fellow directors and officers, for imagination, high standards, and commitment to our mission, whose pursuit the generosity of the Lounsberys makes possible; and to the United States of America, which provides the prosperity and stability that allow institutions such as the Richard Lounsbery Foundation to operate with confidence, optimism, and great freedom.



Jesse H. Ausubel  
Chairman and Director

## THE LOUNSBERY AWARD

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The Richard Lounsbery Award honors young (aged 45 and below) French and American scientists for extraordinary scientific achievement in biology and medicine. The US National Academy of Sciences and the French Academy of Sciences select and celebrate the winner in alternate years. In addition to honoring scientific excellence, the award aims to stimulate research and encourage reciprocal scientific exchanges between the United States and France.

Vera Lounsbery established the Richard Lounsbery Award in memory of her husband, Richard Lounsbery, in 1978. In the words of the first recipients of the award, Michael S. Brown and Joseph L. Goldstein, who worked with Vera Lounsbery to establish the prize and elevate its importance to today's levels, "The achievements of the recipients who are chosen year after year determine the prestige of any award." Brown and Goldstein went on to win the Nobel Prize in Physiology or Medicine in 1985. Lounsbery Award recipients over the past forty years include six others who later received the Nobel Prize. Nine recipients of the Lounsbery Award later received the Lasker Award.



Vera Lounsbery

Links to information about the work of recent recipients are available at [lounsbery.org/lounsberyawardrecipients](http://lounsbery.org/lounsberyawardrecipients).

## Lounsbery Award Recipients

- 2020 MARIE MANCEAU For her remarkable work in developmental biology, in particular training and evolution of periodic patterns on the plumage of birds.
- 2019 JAY SHENDURE For his pioneering work and leadership in the second wave of genomics that is transforming genetics and medicine.
- 2018 YOHANNS BELLAÏCHE For his work on the genetic and mechanical regulation that underlies tissue proliferation, homeostasis and repair in physiological and pathological conditions including the mechanisms of local and long-range mechanosensing during cytokinesis that remodel the dividing cell adherens junction.
- 2017 PARDIS CHRISTINE SABETI For groundbreaking contributions to genetics and global health, including development of new methods to study evolutionary selection in humans and viruses, creation of new collaborative models for combatting emerging diseases across disciplinary and national borders, and leadership of global efforts to increase data sharing in pandemics including Ebola and Lassa fever.
- 2016 BRUNO KLAHOLZ For his work in structural biology on the regulation of gene expression at both the transcriptional level and the protein translation level.
- 2015 HOPI HOEKSTRA For her work probing the molecular basis of how adaptation to novel selective pressures establishes and sustains diversity during evolution.
- 2014 FRÉDÉRIC SAUDOU For his major contributions to the understanding of molecular and cellular mechanisms causing Huntington's disease.
- 2013 KARL DEISSEROTH For his seminal work in the field of optogenetics, in which insertion of a single bacterial protein into a neuron allows the cell to be controlled with light.
- 2012 OLIVIER POURQUIÉ For his work in embryonic patterning in vertebrates and particularly in the genetic and developmental mechanisms that control segmentation.
- 2011 BONNIE L BASSLER For her pioneering discoveries of the universal use of chemical communication among bacteria and the elucidation of structural and regulatory mechanisms controlling bacterial assemblies.
- 2010 GÉRARD KARSENTY For his work on the molecular mechanisms that underlie the formation and the remodeling of bone.
- 2009 CORNELIA I BARGMANN For her extraordinarily inventive and successful use of molecular and classical genetics to probe the individual nerve cell basis of behavior in *C. elegans*.
- 2008 JEAN-LAURENT CASANOVA For his contributions to understanding the genetic basis of the predisposition to viral and bacterial diseases of childhood, which have important clinical implications for the diagnostic and management of infectious diseases.

- 2007 XIAODONG WANG For his pioneering biochemical studies on apoptosis, which have elucidated a molecular pathway leading into and out of the mitochondrion and to the nucleus.
- 2006 CATHERINE DULAC For her major contributions in the perception and behavioral translation of pheromones in mammals.
- 2005 JOHN KURIYAN For his critical role in revealing the structural mechanisms underlying processivity in DNA replication and the regulation of tyrosine kinases and their interacting target proteins.
- 2004 BRIGITTE KIEFFER For her pioneering work on the molecular neurobiology of opioid-controlled behaviors, the results of which have very important implications for the treatment of pain, drug abuse, and emotional disorders.
- 2003 CAROL W GREIDER For her pioneering biochemical and genetic studies of telomerase, the enzyme that maintains the ends of chromosomes in eukaryotic cells.
- 2002 DENIS LE BIHAN For his work on the invention and development of nuclear magnetic resonance imaging of brain diffusion and perfusion. The method he developed permits in vivo mapping of nerve fiber bundles and has multiple applications in both medical pathology and cognitive science fields.
- 2001 ELAINE FUCHS For her fundamental insights into structure and function of cytoskeletal proteins and the relation of these proteins to human genetic diseases.
- 2000 MIROSLAV RADMAN For his contribution to the discovery of the molecular mechanisms implicated in the replication and repair of DNA, in particular, the discovery of a key enzyme of the DNA repair mechanism.
- 1999 ELLIOT M MEYEROWITZ For his pioneering contributions to the molecular genetics of plant architecture, which have practical implications for agriculture.
- 1998 PASCALE COSSART For her fundamental discoveries in microbiology dealing with mechanisms of bacterial entry and intracellular host motility.
- 1997 JAMES E ROTHMAN For his dissection of the biochemical mechanisms by which proteins are transferred from one cellular compartment to another and to the outside world. These mechanisms are important in neurotransmission, tissue biogenesis, and hormonal secretion.
- 1996 DANIEL LOUVARD and JACQUES POUYSSÉGUR For their contributions to the study of the regulation of cell division and differentiation.
- 1995 DOUGLAS A MELTON For showing how cells and tissues differentiate during vertebrate development through studies on localized mRNAs in eggs and the genes that induce mesoderm and neural tissue.
- 1994 JEAN-LOUIS MANDEL For his work in human genetics and in particular for his discovery of the mutation of fragile X. This new type of mutation has now been found at the origin of the diseases.
- 1993 STANLEY B PRUSINER and BERT VOGELSTEIN For their distinct and exciting discoveries about the pathogenesis of neurodegenerative and malignant diseases. This award is given as a celebration of the power of modern molecular medicine.



- 1992 PHILIPPE ASCHER and HENRI KORN For their discoveries of the mechanisms of synaptic transmission. Philippe Asher furthered knowledge regarding the properties of glutamate receptors which play an important role in trials, and Henri Korn brought to light the elementary liberation of neurotransmitter in quanta form in the central nervous system of vertebrates.
- 1991 MARC W KIRSCHNER For elucidating key steps in the cell cycle, chromosome movement, cell cycle timing, nucleus breakdown and reformation, and microtubule control of cell polarity and mitosis.
- 1991 HAROLD M WEINTRAUB For elucidating a molecular mechanism by which a single regulatory gene can lead to a program of cell differentiation.
- 1990 JEAN ROSA For his contributions, which have opened a new road in the control of oxygen transport in the blood and the treatment of the first worldwide genetic plague, drepanocytosis.
- 1989 RICHARD AXEL For his discoveries elucidating gene structure in animal cells.
- 1988 FRANÇOIS CUZIN For his original contributions in the elucidation of the mechanisms involved in malignant cell transformation, in particular, demonstration of the necessary contribution of two oncogenes.
- 1987 ALFRED G GILMAN and MARTIN RODBELL For their discoveries regarding the proteins and mechanisms that mediate cellular responses to the binding of ligands to cell surface receptors.
- 1986 ANDRÉ CAPRON and JACQUES GLOWINSKI For their fundamental work, which has contributed to the treatment of parasitic and neurological diseases.
- 1985 MARTIN GELLERT and THOMAS MANIATIS For their seminal contributions to our understanding of the structure and function of DNA, which were essential and fundamental to the development of recombinant DNA techniques.
- 1984 MAXIME SCHWARTZ For his genetic and biochemical analysis of the maltose system of *E.coli*, which paved the way for the solution of a series of fundamental problems in molecular biology.
- 1983 GÜNTER BLOBEL For his work in uncovering the molecular interactions that control the traffic of newly synthesized proteins in eukaryotic cells, for his incisive experiments, and for the beauty of the findings by which he established these interactions.
- 1982 PIERRE CHAMBON and JEAN-PIERRE CHANGEUX For their work on fundamental structures of genetic material and of the nervous system.
- 1981 PHILIP LEDER For his series of notable contributions in molecular genetics, which help to explain the means by which genetic information is organized and used to direct the synthesis of specific cell products.
- 1980 FRANÇOIS MOREL For his work on the physiology of the kidney.
- 1979 MICHAEL S BROWN and JOSEPH L GOLDSTEIN For their work in cholesterol biosynthesis.

## BOARD APPROVED GRANTS: ALL CATEGORIES

2013–2019

Organization	Topic	Award Date	Amount	Category
<b>2013*</b>				
Duke University	National Evolutionary Synthesis Center: Using digital libraries to discover biodiversity and evolution	7/25/13	\$50,000	Research and exploration
National Academy of Sciences	Considering 150 years of service to the Nation	7/25/13	\$72,000	History of science
Smithsonian Institution National Air and Space Museum	Cooperative exploration of the Big Bang by drummer Mickey Hart and physicist George Smoot	7/25/13	\$47,000	Science education
Smithsonian Institution National Portrait Gallery	Daguerreotype collection conservation	7/25/13	\$27,000	History of science
University of Haifa	Regional cooperation in Eastern Mediterranean Sea research	7/25/13	\$100,000	Research and exploration; Science and diplomacy
Protestant University of Congo	Infectious disease research fellowship	7/25/13	\$100,000	Science education; French-American

\*Tables in this report cover Directors' grants made in the period from 1 July 2013 through 31 December 2019. Grants from first half of 2013 appear in the 2009–2013 report. Monetary amounts shown here are often rounded and are not the precise amounts of the awards.

## BOARD APPROVED GRANTS: ALL CATEGORIES (continued)

Organization	Topic	Award Date	Amount	Category
Institute of Advanced Scientific Studies (IHES)	Visiting Africa scholar program	7/25/13	\$57,000	Science and diplomacy; French-American
City University of New York	Neurodome: A planetarium journey through the brain	11/19/13	\$99,000	Science education
American Philosophical Society	History of science collections management	11/19/13	\$202,000	History of science
University of Nebraska at Omaha	Water resource management in Afghanistan and Pakistan	11/19/13	\$100,000	Research and exploration; Science and diplomacy
Boston University	Conservation biology textbook for Africa	11/19/13	\$25,000	Science education; Science and diplomacy
Zephyr Education Foundation	Pilot marine science education program for underserved high school students	11/19/13	\$27,000	Science education
George C. Marshall Institute	Balancing national security and individual privacy	11/19/13	\$60,000	Other
National Academy of Sciences	Richard Lounsbery Award	12/1/13	\$70,000	French-American

## 2014

University of Michigan	CERN research abroad program for college physics majors	2/6/14	\$138,000	Science education
National Academy of Sciences	US-Iran science engagement Program of the Academies of Sciences, Engineering, and Medicine	2/6/14	\$150,000	Science and diplomacy
American Association for the Advancement of Science	Volcanological research in North Korea: Phase II	2/6/14	\$123,000	Research and exploration; Science and diplomacy
Ocean Exploration Trust	Exploration workshop on the Eastern and Central Pacific Ocean	2/6/14	\$75,000	Research and exploration
French National Center for Scientific Research and University of Lorraine	Joint French-American research on volatile fluxes in Africa's Afar region	2/6/14	\$100,000	Research and exploration; Science and diplomacy

## BOARD APPROVED GRANTS: ALL CATEGORIES (continued)

Organization	Topic	Award Date	Amount	Category
University of California, San Francisco	Achieving cognitive enhancement through rhythm training	4/16/14	\$50,000	Research and exploration
Global Viral Forecasting Initiative	Training the next generation of explorers in the unseen world	4/16/14	\$30,000	Science education
Professional Children's School	Second Century initiative to upgrade STEM education	4/16/14	\$100,000	Science education
Cell Motion Laboratories	Seed funds to explore mobile biology labs for high school education	4/16/14	\$100,000	Science education
National Academy of Sciences	Arab-American Frontiers program of the Academies of Sciences, Engineering, and Medicine: Fellowship grants for collaborative research	4/16/14	\$60,000	Science and diplomacy
Manhattan Institute for Policy Research	Exploration of safe ways to accelerate FDA's approval process	4/16/14	\$50,000	Other
University of Wisconsin	Genomic basis and parallel evolution of female-restricted color dimorphism in <i>Drosophila</i>	8/1/14	\$90,000	Research and exploration; French-American
University of Tennessee	Preservation and transition of a global hydrogen news and information platform	8/1/14	\$75,000	History of science
Trustees of Tufts University	The Great Diseases Project: Real-world biomedical science for high school classrooms	8/1/14	\$44,000	Science education
American Association for the Advancement of Science	Cuba Research Fellows in the biomedical and health sciences	8/1/14	\$140,000	Science and diplomacy; International relations
Institute of International Education	Scholar Rescue Fund: Sub-Saharan Africa	8/1/14	\$100,000	Science and diplomacy
Foundation for Male Studies	Workshop to explore biological and behavioral aspects of human males	8/1/14	\$25,000	Research and exploration
French National Center for Scientific Research, Roscoff Biological Station	Integrating DNA barcoding in the research vessel <i>Tara's</i> studies of plankton	10/29/14	\$75,000	Research and exploration; French-American

## BOARD APPROVED GRANTS: ALL CATEGORIES (continued)

Organization	Topic	Award Date	Amount	Category
Institute of Human Paleontology (Paris)	Anthropological and genetic study of Leonardo da Vinci	10/29/14	\$133,000	Biology in art; French-American
Dian Fossey Gorilla Fund International	Gorillas without Borders: A collaborative research program between Rwanda and DR Congo	10/29/14	\$100,000	Research and exploration; Science and diplomacy
York University	A biography of geneticist Joshua Lederberg	10/29/14	\$84,000	History of science
Mount Vernon Ladies' Association	Marquis de Lafayette and the European friends of the American Revolution	10/29/14	\$75,000	French-American
Zephyr Education Foundation	Science at Sea: Program for underserved high school students	10/29/14	\$50,000	Science education
French Academy of Sciences	Richard Lounsbery Award	12/1/14	\$70,000	French-American

### 2015

American Academy of Arts and Sciences	A look at the current state of human performance enhancement	2/11/15	\$90,000	Research and exploration
Center for Strategic and International Studies	How the War Colleges teach impacts of emerging sciences and technologies on strategic thinking	2/11/15	\$80,000	Science Education
National Academy of Sciences	Initiating science and technology engagement of the Academies of Sciences, Engineering, and Medicine with Belarus	2/11/15	\$100,000	Science and diplomacy
Duke University	Capacity building in US and Venezuelan early career scientists for analysis of biodiversity patterns	2/11/15	\$100,000	Research and exploration; Science and diplomacy
Third World Academy of Sciences (TWAS)	Participation of early career scientists from developing countries in TWAS programs	2/11/15	\$50,000	Science and diplomacy
Historical Society of Pennsylvania	Historic Images, New Technologies: A digital archives project	2/11/15	\$25,000	History of science
George C. Marshall Institute	Securing US leadership in space in a new era of competition	2/11/15	\$57,000	Other

## BOARD APPROVED GRANTS: ALL CATEGORIES (continued)

Organization	Topic	Award Date	Amount	Category
Carnegie Institution for Science	Strengthening Argentina's ties with the US and Chilean astronomy communities	4/29/15	\$125,000	Research and exploration; Science and diplomacy
Global Film Network	Symbiotic Earth: A documentary film about evolutionary biologist Lynn Margulis	4/29/15	\$99,000	History of science
Royal Institute of International Affairs	The science, technology, and foreign policy nexus	4/29/15	\$30,000	Science and diplomacy
Math for America DC	Master Teacher Program	4/29/15	\$50,000	Science education
Yale University	Issue of the <i>Journal of Industrial Ecology</i> on additive manufacturing and the environment	4/29/15	\$51,000	Research and exploration
Earthwatch Institute	Conserving endangered rhinos in South Africa	4/29/15	\$78,000	Research and exploration
Center for the Study of the Presidency and Congress	David M. Abshire Chair for national leadership	7/29/15	\$300,000	Other
French Association of Gemology	Continent-to-continent collisions, gemstones, deposits of metals, oil, and gas	7/29/15	\$57,000	Research and exploration; French-American
Federation of American Scientists	French-American assessment of two naval nuclear propulsion systems	7/29/15	\$94,000	French-American
Texas A&M University, Corpus Christi	Joint opportunities for advancing ocean monitoring and conservation in Cuba	7/29/15	\$46,000	Research and exploration; Science and diplomacy
Woodrow Wilson International Center for Scholars	Budget Hero 2.0: A US budget education serious game	10/28/15	\$100,000	Other
Rice University	Recommendations for the next President's Science and Technology Advisor	10/28/15	\$50,000	Other
French-American Foundation	Events and colloquium on comparative cyber security in France and the US	10/28/15	\$25,000	French-American

## BOARD APPROVED GRANTS: ALL CATEGORIES (continued)

Organization	Topic	Award Date	Amount	Category
University of North Carolina Wilmington (with Future University of Sudan)	Vulnerability of water resources of Eastern Sudan and impact of weather variability	10/28/15	\$75,000	Research and exploration; Science and diplomacy
National Academy of Sciences	Richard Lounsbery Award	12/1/15	\$70,000	French-American

### 2016

Center for Strategic and International Studies	How the War Colleges teach impacts of emerging sciences and technologies on strategic thinking: Phase II	2/17/16	\$100,000	Science education
Ocean Exploration Trust	Victory at Sea: Exploring ships and aircraft lost in the Pacific during WWII	2/17/16	\$125,000	Research and exploration
New York University	Free Speech Index: A look at viewpoint diversity on college campuses	2/17/16	\$150,000	Other
Real Clear Foundation	Aggregating research on performance enhancement in the RealClearScience website	2/17/16	\$100,000	Science education
International Documentary Association	Secrets of the Universe: IMAX film about the Large Hadron Collider	2/17/16	\$50,000	History of science
Zephyr Education Foundation	Science at Sea: Program for underserved high school students	2/17/16	\$26,000	Science education
National Academy of Sciences	Sharing understanding of violent extremism between Russian and American scholars	2/17/16	\$62,000	Research and exploration; Science and diplomacy
University of New Mexico	Joint US-Russian investigations of volcanic carbon degassing	2/17/16	\$35,000	Research and exploration; Science and diplomacy
French-American Cultural Foundation	The Seasons: Seed funding for a film about forests and forest animals by Jacques Perrin	3/4/16	\$120,000	French-American
Institute of Human Paleontology (Paris)	French-American colloquium on evolution of the brain and cognition in fossil hominids	4/27/16	\$50,000	French-American
J. Craig Venter Institute	Analysis of works of art for the Renaissance DNA Project	4/27/16	\$100,000	Biology in art

## BOARD APPROVED GRANTS: ALL CATEGORIES (continued)

Organization	Topic	Award Date	Amount	Category
The Cyprus Institute	Sustainable land-based aquaculture in Israel-Palestine	4/27/16	\$150,000	Research and exploration; Science and diplomacy
Princess Sumaya University for Technology	Support for the SESAME Facility: A Synchrotron-light for Experimental Science and Applications in the Middle East	4/27/16	\$75,000	Research and exploration; Science and diplomacy
New York Botanical Garden	Cuban/US Collaboration in biodiversity	4/27/16	\$75,000	Research and exploration; Science and diplomacy
Institute of International Education	Scholar Rescue Fund: Venezuela	4/27/16	\$100,000	Science and diplomacy
Deep-Sea Biology Society	Help to found and grow a professional society for deep-sea biological sciences	4/27/16	\$50,000	Research and exploration
EarthWatch Institute	Elephants and sustainable agriculture in Kenya	4/27/16	\$80,000	Research and exploration
United States Foundation for the Commemoration of the World Wars	National World War I Memorial	7/28/16	\$1,000,000	French-American
University of Florence	Methods and protocols for genetic characterization of Leonardo da Vinci's remains	7/28/16	\$100,000	Biology in art
Games for Change	A global challenge to create a serious game about international migrations	7/28/16	\$50,000	Science education
Consortium for Ocean Leadership	Seed funding for the U.S. Quiet Ocean Program Office	10/27/16	\$99,000	Research and exploration
French-American Cultural Foundation	Jazzmen Soldiers: 100th anniversary World War I commemoration	10/27/16	\$60,000	French-American
Environmental Law Institute	Studying the case of cellular agriculture	10/27/16	\$50,000	Other
University of Haifa	Seismic imaging of the Dead Sea and Jordan Valley	10/27/16	\$250,000	Research and exploration; Science and diplomacy



## BOARD APPROVED GRANTS: ALL CATEGORIES (continued)

Organization	Topic	Award Date	Amount	Category
French Academy of Sciences	Richard Lounsbery Award	12/1/16	\$70,000	French-American
<b>2017</b>				
Royal Institute of International Affairs	Great War Alliance: World War I Centennial Project	2/16/17	\$62,000	French-American
Meridian International Center	Great War Alliance: World War I Centennial Project	2/16/17	\$62,000	French-American
National Academy of Sciences	Sharing understanding of violent extremism between Russian and American scholars: Phase II of the program of the Academies of Sciences, Engineering, and Medicine	2/16/17	\$100,000	Research and exploration; Science and diplomacy
University of California, San Diego	Research in marine bioluminescence for biomedical and biotechnological applications	2/16/17	\$45,000	Research and exploration
National Academy of Sciences	To support the Committee on Human Rights for scientists, engineers, and physicians	2/16/17	\$40,000	Science and diplomacy
Genspace NYC	To help establish a citizen science Brooklyn DNA barcoding center	2/16/17	\$40,000	Science education
National Academy of Sciences	The role of scientists and engineers in World War I: An essay contest of the Academies of Sciences, Engineering, and Medicine	5/2/17	\$76,000	History of science; French-American
Carnegie Council for Ethics in International Affairs	The living legacy of World War I	5/2/17	\$276,000	French-American
The Aspen Institute	Aspen Young Leaders Forum	5/2/17	\$25,000	Science education
University of Utah	Re-examining Vannevar Bush's Endless Frontier report	5/2/17	\$30,000	History of science
Real Clear Foundation	Aggregating research in the RealClearScience website: Phase II, Future Humans	5/2/17	\$50,000	Science education
California Institute of Technology	Joint research with Mongolia on dynamics of continental crust formation	7/27/17	\$149,000	Research and exploration; Science and diplomacy

## BOARD APPROVED GRANTS: ALL CATEGORIES (continued)

Organization	Topic	Award Date	Amount	Category
Northeastern University	Student research on improving methods for conservation of DNA samples	7/27/17	\$25,000	Science education
National Coast Guard Museum Association	Museum education initiative for future National Coast Guard Museum	7/27/17	\$75,000	Science education
Center for Strategic and International Studies	How the War Colleges teach impacts of emerging sciences and technologies on strategic thinking: Phase III	7/27/17	\$60,000	Science education
University of Michigan	CERN Research Abroad Program for undergraduate physics students	7/27/17	\$124,000	Science education
French-American Cultural Foundation	The Photographer: Seed funding for a film about the American West by Jacques Perrin	7/27/17	\$124,000	French-American
American Council on Science and Health	Big Fears, Little Risks: A documentary about how dangerous various risks proved to be	7/27/17	\$50,000	Science education
French National Museum of Natural History	Genomics of insect-plant interactions	10/26/17	\$91,000	Research and exploration; French-American
Cold Spring Harbor Laboratory	Student research on environmental DNA (eDNA)	10/26/17	\$100,000	Science education
New York University	Symposium on new molecular biology and art history and conservation	10/26/17	\$60,000	Biology in art
Ocean Exploration Trust	Submerged sea caves of the Southern California continental borderland	10/26/17	\$100,000	Research and exploration
Partnership for Observation of the Global Oceans	Biological observations of the ocean: International workshop	10/26/17	\$50,000	Research and exploration
Humanus Documentary Films Foundation	The Lafayette Escadrille: A documentary film on the World War I flying squadron	10/26/17	\$100,000	French-American
Atomic Heritage Foundation	French contributions to the Manhattan Project	10/26/17	\$50,000	History of science; French-American

## BOARD APPROVED GRANTS: ALL CATEGORIES (continued)

Organization	Topic	Award Date	Amount	Category
California Asphalt and Pavement Association	Book about construction of the Second Avenue Subway in New York City	10/26/17	\$50,000	History of science
National Academy of Sciences	US-Russia joint research projects on violent extremism under the auspices of the Academies of Sciences, Engineering, and Medicine	10/26/17	\$70,000	Research and exploration; Science and diplomacy
University of Florence	Further steps toward genetic characterization of Leonardo da Vinci's remains	10/26/17	\$31,000	Biology in art
National Academy of Sciences	Richard Lounsbery Award	12/1/17	\$70,000	French-American

### 2018

American Friends of Lafayette	The Lafayette Trail in America: A digital map	2/13/18	\$25,000	French-American
American Hospital of Paris Foundation	The role of the American Hospital of Paris in World War II	2/13/18	\$100,000	French-American
Hartsbrook School	Hartsbrook School's chemistry lab renovation	2/13/18	\$84,000	Science education
Wildlife Conservation Society	Understanding the restoration of marine mammals to the New York Bight	2/13/18	\$100,000	Research and exploration
New York University	View point diversity: A nonpartisan look at higher education	2/13/18	\$100,000	Other
French National Museum of Natural History	Joint French-American expeditions to document marine biodiversity in New Caledonia	5/2/18	\$170,000	Research and exploration; French-American
Massachusetts Institute of Technology	New methods for professional learning among STEM teachers	5/2/18	\$100,000	Science education
American Physical Society	PhysicsQuest: Comic book physics kits for middle schoolers	5/2/18	\$100,000	Science education
University of Grenoble – Alps	Temperature and composition of Earth's mantle: A French-Russian-American joint study	5/2/18	\$100,000	Research and exploration; French-American

## BOARD APPROVED GRANTS: ALL CATEGORIES (continued)

Organization	Topic	Award Date	Amount	Category
Mount Vernon Ladies' Association	French-American Connections: Chastellux and the French army in America during the Revolution	5/2/18	\$85,000	French-American
Terlingua Institute for Border Studies	To build a research agenda for the study of international borders	5/2/18	\$25,000	Science and diplomacy
Yale University	Analysis of microbiomes embedded in art	7/26/18	\$119,000	Biology in art
Institute of Human Paleontology (Paris)	A French-American colloquium on Leonardo da Vinci as anatomist	7/26/18	\$110,000	Biology in art; French-American
Oregon State University	The intellectual history of US foreign relations	7/26/18	\$132,000	Other
Global Health Equity Foundation	Establishing sustained medical science diplomacy between Iranian, American, and European based researchers	7/26/18	\$80,000	Research and exploration; Science and diplomacy
New York University, Tandon School of Engineering	Center for K12 STEM Education's Science of Smart Cities program	7/26/18	\$113,000	Science education
University of Michigan	Homer and Donna Neal Scholarship Fund: Supporting underserved students in the study of physics	10/24/18	\$100,000	Science education
Letters to a Pre-Scientist, Inc.	Demystifying science careers for middle school students	10/24/18	\$137,000	Science education
Columbia University - Teachers College	Multimedia activities to help New York area high school and middle school math teachers	10/24/18	\$100,000	Science education
Art Institute of Chicago	Characterization of biological materials in works of art	10/24/18	\$90,000	Biology in art
Leonardo Heritage Association	Tracing the complex genealogy of Leonardo da Vinci	10/24/18	\$120,000	Biology in art
Harvard University	Research in neuroscience and cognition to help design games enhancing children's learning of mathematics	10/24/18	\$57,000	Research and exploration; French-American
French National Institute of Health and Medical Research (INSERM)	Research in neuroscience and cognition to help design games enhancing children's learning of mathematics	10/24/18	\$147,000	Research and exploration; French-American

## BOARD APPROVED GRANTS: ALL CATEGORIES (continued)

Organization	Topic	Award Date	Amount	Category
French Academy of Sciences	Richard Lounsbery Award	12/1/18	\$70,000	French-American
<b>2019</b>				
Institute of Physiology, Molecular Biology and Neurosciences, University of Buenos Aires	Scientific collaboration in Argentina seeking cures for spinal muscular atrophy	2/12/19	\$70,000	Research and exploration; Science and diplomacy
Institute of Biology and Experimental Medicine, University of Buenos Aires	Scientific collaboration in Argentina on cancer immunotherapy	2/12/19	\$70,000	Research and exploration; Science and diplomacy
Naturalis Biodiversity Center	Field work on diversity of corals in the Northwest Indian Ocean	2/12/19	\$115,000	Research and exploration; Science and diplomacy
Walter Munk Foundation for the Oceans	French-American-Austrian study of Lake Altaussee for contamination by microplastics	2/12/19	\$50,000	Research and exploration; French-American
Nasher Sculpture Center	French sculpture census in the United States	2/12/19	\$30,000	Other; French-American
Center for the Study of the Presidency and Congress	Presidential Fellows Program: French Fellows Initiative	2/12/19	\$57,000	Other; French-American
Council for the Advancement of Science Writing	Biography of evolutionary biologist Lynn Margulis	2/12/19	\$64,000	History of Science
Burlington Writers Workshop	Book about ecological impacts of the Iron Curtain in Germany	2/12/19	\$75,000	Science Education
National Academy of Sciences	Reviving US-Iran engagement through the Academies of Sciences, Engineering, and Medicine	5/1/19	\$100,000	Research and exploration; Science and diplomacy (awaiting final approval)
Birkbeck College, University of London	Scientific collaboration on the origin and hazards of Paektu/Changbaishan Volcano	5/1/19	\$177,000	Research and exploration; Science and diplomacy

## BOARD APPROVED GRANTS: ALL CATEGORIES (continued)

Organization	Topic	Award Date	Amount	Category
Northwestern University	Biology in art: Studying patinas on West African sculpture by immunochemistry	5/1/19	\$102,000	Biology in art
The Rockefeller University	Biology in art: Extraction and analysis of DNA from Renaissance-era artwork, especially on paper	5/1/19	\$64,000	Biology in art
Ocean Biogeographic Information System (OBIS)	Integrating genomic information into what/where databases of marine life	5/1/19	\$80,000	Research and exploration
Hudson River Park Trust	Environmental DNA Survey in the Hudson River Park's Estuarine Sanctuary	5/1/19	\$100,000	Science education
National Academy of Sciences	Roundtable on Global Science Diplomacy	7/24/19	\$125,000	Science and diplomacy
National Academy of Sciences	To support the Committee on Human Rights for scientists, engineers, and physicians	7/24/19	\$70,000	Science and diplomacy
Argentine Museum of Natural Sciences	Scientific collaboration in Argentina on Darwinian mysteries of bird evolution and related theory	7/24/19	\$80,000	Research and exploration; Science and diplomacy
University of Salta, Argentina	Scientific collaboration in Argentina using isotopes to study fluids deep under an Andean region with unusually high thermal gradients	7/24/19	\$50,000	Research and exploration; Science and diplomacy
Institute of Molecular and Cellular Biology of Rosario, Argentina	Scientific collaboration in Argentina using nuclear magnetic resonance to study proteins related to Parkinson's disease	7/24/19	\$80,000	Research and exploration; Science and diplomacy
University of Virginia	Research and software development to create digital maps of tombs of Renaissance Florence	7/24/19	\$40,000	Biology in art
Washington and Lee University	Research and software development to create digital maps of tombs of Renaissance Florence	7/24/19	\$18,000	Biology in art
Boston University	Final production of textbook: Conservation Biology for Sub-Saharan Africa	7/24/19	\$30,000	Science education; Science and diplomacy

## BOARD APPROVED GRANTS: ALL CATEGORIES (continued)

Organization	Topic	Award Date	Amount	Category
Atomic Heritage Foundation	To secure the preservation of the collection of the AHF	7/24/19	\$25,000	History of science
New-York Historical Society	Exploring the Society's collections using DNA	10/23/19	\$125,000	Biology in art
Metropolitan Museum of Art	A French-American Fellowship to advance biological sciences for understanding and conservation of cultural heritage	10/23/19	\$120,000	Biology in art; French-American
Metropolitan Museum of Art	Understanding Interactions of Biological Material in Art with Its Environment	10/23/19	\$113,000	Biology in art
Institute of International Education	Scholar Rescue Fund: Latin America	10/23/19	\$125,000	Science and diplomacy
Leloir Institute Foundation	Scientific collaboration in Argentina to study both molecular mechanisms of brain plasticity and the genome of the Zika virus	10/23/19	\$154,000	Research and exploration; Science and diplomacy
Sea Education Association	Improving understanding of physical processes governing transport of floating marine litter	10/23/19	\$50,000	Research and exploration
University of New Hampshire	Development of scientific software for standardizing and comparing measurements of ocean soundscapes	10/23/19	\$97,000	Research and exploration
National Academy of Sciences	Richard Lounsbery Award	12/1/19	\$70,000	French-American

## BOARD APPROVED GRANTS: FRENCH-AMERICAN

2013–2019

Organization	Topic	Award Date	Amount
Protestant University of Congo	Infectious disease research fellowship	7/25/13	\$100,000
Institute of Advanced Scientific Studies (IHES)	Visiting Africa scholar program	7/25/13	\$57,000
National Academy of Sciences	Richard Lounsbery Award	12/1/13	\$70,000
University of the Wisconsin	Genomic basis and parallel evolution of female-restricted color dimorphism in <i>Drosophila</i>	8/1/14	\$90,000
Mount Vernon Ladies' Association	Marquis de Lafayette and the European friends of the American Revolution	10/29/14	\$75,000
French National Center for Scientific Research, Roscoff Biological Station	Integrating DNA barcoding in the research vessel <i>Tara's</i> studies of plankton	10/29/14	\$75,000
Institute of Human Paleontology (Paris)	Anthropological and genetic study of Leonardo da Vinci	10/29/14	\$133,000
French Academy of Sciences	Richard Lounsbery Award	12/1/14	\$70,000
French Association for Gemology	Continent-to-continent collisions, gemstones, deposits of metals, oil, and gas	7/29/15	\$57,500



## BOARD APPROVED GRANTS: FRENCH-AMERICAN (continued)

Organization	Topic	Award Date	Amount
Federation of American Scientists	French-American assessment of two naval nuclear propulsion systems	7/29/15	\$94,000
French-American Foundation	Event series and colloquium on cyber security	10/28/15	\$25,000
National Academy of Sciences	Richard Lounsbery Award	12/1/15	\$70,000
French-American Cultural Foundation	The Seasons: Seed funding for a film about forests and forest animals by Jacques Perrin	3/4/16	\$120,000
Institute of Human Paleontology (Paris)	French-American colloquium on evolution of the brain and cognition in fossil hominids	4/27/16	\$50,000
United States Foundation for the Commemoration of the World Wars	National World War I Memorial	7/28/16	\$1,000,000
French-American Cultural Foundation	Jazzmen Soldiers: 100th anniversary World War I commemoration	10/27/16	\$60,000
French Academy of Sciences	Richard Lounsbery Award	12/1/16	\$70,000
Royal Institute of International Affairs	Great War Alliance: World War I Centennial Project	2/16/17	\$62,000
Meridian International Center	Great War Alliance: World War I Centennial Project	2/16/17	\$62,000
National Academy of Sciences	The role of scientists and engineers in World War I: An essay contest of the Academies of Sciences, Engineering, and Medicine	5/2/17	\$76,000
Carnegie Council for Ethics in International Affairs	The living legacy of World War I	5/2/17	\$276,000
French-American Cultural Foundation	The Photographer: Seed funding for a film About the American West by Jacques Perrin	7/27/17	\$124,000
Humanus Documentary Films Foundation	The Lafayette Escadrille: A documentary on the World War I flying squadron	10/26/17	\$100,000
Atomic Heritage Foundation	French contributions to the Manhattan Project	10/26/17	\$50,000
French National Museum of Natural History	Genomics of insect-plant interactions	10/26/17	\$91,000
National Academy of Sciences	Richard Lounsbery Award	12/1/17	\$70,000
American Friends of Lafayette	The Lafayette Trail in America: A digital map	2/13/18	\$25,000

## BOARD APPROVED GRANTS: FRENCH-AMERICAN (continued)

Organization	Topic	Award Date	Amount
American Hospital of Paris Foundation	The role of the American Hospital of Paris in World War II	2/13/18	\$100,000
Mount Vernon Ladies' Association	French-American connections: Chastellux and the French army in America during the Revolution	5/2/18	\$85,000
French National Museum of Natural History	Joint French-American expeditions to document marine biodiversity in New Caledonia	5/2/18	\$170,000
University of Grenoble – Alps	Temperature and composition of Earth's mantle: A French-Russian-American joint study	5/2/18	\$100,000
Institute of Human Paleontology (Paris)	A French-American colloquium on Leonardo da Vinci as anatomist	7/26/18	\$110,000
Harvard University	Research in neuroscience and cognition to help design games enhancing children's learning of mathematics	10/24/18	\$57,000
French National Institute of Health and Medical Research (INSERM)	Research in neuroscience and cognition to help design games enhancing children's learning of mathematics	10/24/18	\$147,000
French Academy of Sciences	Richard Lounsbery Award	12/1/18	\$70,000
Nasher Sculpture Center	French sculpture census in the United States	2/12/19	\$30,000
Center for the Study of the Presidency and Congress	Presidential Fellows Program: French Fellows Initiative	2/12/19	\$57,000
Walter Munk Foundation for the Oceans	French-American-Austrian study of Lake Altaussee for contamination by microplastics	2/12/19	\$50,000
Metropolitan Museum of Art	A French-American fellowship to advance biological sciences for understanding and conservation of cultural heritage	10/23/19	\$120,000
National Academy of Sciences	Richard Lounsbery Award	12/1/19	\$70,000

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