“Funding research and education today to improve the practice of tomorrow”
Mission
The mission of TSF is to foster the development of surgeon scientists in cardiothoracic surgery, increasing knowledge and innovation to benefit patient care.

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Dear Colleagues, Patients, and Friends:

It has been my privilege to serve as the Foundation’s President for the past 3 years, and as my term has come to an end, I am excited by the significant progress the Foundation has made. This time has afforded me the opportunity to learn and experience first-hand the generosity of the members of our specialty in supporting TSF research and education initiatives.

2016 was a great year for TSF. With support from The Society of Thoracic Surgeons, TSF has been invigorated. The Foundation’s now-established role as the Society’s charitable arm unequivocally has boosted fundraising, enabling us to have a greater impact toward our mission. Our most recent accomplishments include:

- **$719,250** in grants awarded (up from $465,250 in 2015)
- **188% increase** in donations from industry, hospitals, foundations, and associations (compared to 2015)
- **$100,000+ raised** for the newly created Robert L. Replogle Traveling Fellowship (in memory of TSF founder and STS past president)
- **$464,000 raised** for the newly created Michael J. Davidson Fellowship (in memory of our colleague)
- **$200,000+ raised** from surgeon donations through the TSF/STS Surgeon Match Challenge (STS matched these donations, doubling their impact)
- **$719,250** in grants awarded (up from $465,250 in 2015)
- **23** surgeon awardees (up from 15 in 2015)

It is my firm belief that TSF is the lifeblood of our specialty. It is truly your Foundation. Research grants, fellowships, and educational scholarships from TSF represent all of our disciplines (cardiac, general thoracic, and congenital) and surgeons at all career stages. The Foundation’s awards have been instrumental in developing hundreds of young surgeons by providing the support needed for their career advancement. These awards have also been important stepping stones in furthering innovation in cardiothoracic surgery. I’m certain that under the leadership of TSF’s new President, Dr. Douglas Wood, the Foundation will reach new heights.

If you have not given to the Foundation recently, I urge you to consider **donating now**. And, if you generously donated in 2016, please consider another gift at this time. Let’s build on the momentum from a successful 2016 and make 2017 an even better year. Your generosity will help us ensure a bright future for surgeon-scientists and excellent care for our patients.

Thank you for your continued support of TSF.

John H. Calhoon, MD
TSF President, 2014–2017
Grants from TSF provide critical early-career leverage, enabling junior faculty to generate pilot data and establish their credibility to compete successfully in a rigorous national peer-review process. Your support through TSF has successfully translated into NIH grants for a generation of our “best and brightest” young thoracic surgeon-scientists.

Richard N. Pierson III, MD
University of Maryland

* As of December 31, 2016 (Unaudited)
2016 TSF Award Offerings

TSF/NIH Jointly Sponsored Mentored Clinical Scientist Award
Provides support to outstanding clinically trained professionals who are committed to a career in laboratory or field-based research and have the potential to develop into independent investigators. The award total is $150,000 for a 5-year NIH award period.

TSF Research Award
Operational support of original research efforts by cardiothoracic surgeons who have completed their formal training and who are seeking initial support and recognition for the research program. Awards of up to $40,000 per year for up to 2 years are granted to support the work of an early-career cardiothoracic surgeon (within 7 years of first faculty appointment at time of application deadline). The STS Research Award designation is given to the highest-ranking TSF Research application awarded by TSF based on merit as judged by a rigorous peer review.

Nina Starr Braunwald Research Award
Nina Starr Braunwald, MD was the first woman to be certified by the ABTS and the first woman to conduct open heart surgery. This award in her name provides operational support of original research efforts by women cardiac surgeons who have completed their formal training and who are seeking initial support and recognition for their research program. Since its inception, award recipients have gone on to become established leaders within the field, and this award is one of the specialty’s most prestigious research grants. Awards of up to $40,000 per year for up to 2 years are made each year to support the work of an early-career woman cardiac surgeon (within 5 years of first faculty appointment).

Nina Starr Braunwald Research Fellowship Award
Nina Starr Braunwald, MD was the first woman to be certified by the ABTS and the first woman to conduct open heart surgery. This award in her name supports up to $30,000 per year for up to 2 years for a woman resident working in a cardiac surgical clinic or laboratory research program who has not yet completed cardiothoracic surgical training. Since its inception, fellowship recipients have gone on to become established leaders within the field. This is widely recognized as one of the specialty’s most prestigious research fellowships.

Southern Thoracic Surgical Association (STSA) Research Award
Provides operational support of original research efforts by cardiothoracic surgeons who have completed their formal training and who are seeking initial support and recognition for their research program. Awards of up to $25,000 for 1 year will be granted to support the work of an early-career cardiothoracic surgeon (within 7 years of first faculty appointment at the time of application deadline). STSA membership is not required; however, applicants must meet STSA membership eligibility requirements.

Acelity Wound Care Research Award
Provides funding of up to $25,000 to support the research efforts by cardiothoracic surgeons who have completed their formal training and who are seeking support and recognition for their research program related to wound care management.

Carolyn E. Reed Traveling Fellowship Award
Carolyn E. Reed, MD was a thoracic surgeon, educator, and successful researcher, who died early while still in her prime. She served as the first female Chair of the ABTS and was also President of the STSA and STS. This award in her name provides support of up to $10,000 for a clinically-established woman thoracic or cardiac surgeon, or woman resident in her last year of cardiothoracic surgery residency, to travel to another institution for the purpose of learning a new skill or technology.

TSF/Edwards Lifesciences Foundation Every Heartbeat Matters Award
TSF, through the generosity and philanthropy of the Edwards Lifesciences Foundation via its Every Heartbeat Matters Campaign, offers support of up to $37,500 for qualified surgeons who conduct charity work in underserved regions/populations. Awards are designed to provide support for programs that educate, screen, and/or treat underserved populations to reduce the global burden of heart valve disease, or to support other programs that advance health care and address underserved populations.
The Levi Watkins Innovation and Leadership Development Scholarship

Levi Watkins, MD was an accomplished cardiothoracic surgeon and social activist at Johns Hopkins Medical Center who made medical history by working with innovative physicians and engineers to implant the first automated internal cardiac defibrillator in a human being. The Watkins Scholarship will provide a training and/or development grant to support travel to a center of excellence to acquire additional clinical, translational, or leadership training to enhance skills and practice in an area of innovation or surgical significance. This award in his name will provide support of up to $5,000 for up to 2 weeks for cardiothoracic surgeons who are within 7 years of first faculty appointment.

Michael J. Davidson Fellowship Award

Michael J. Davidson, MD was an outstanding cardiothoracic surgeon and teacher who was murdered in January 2015 at Brigham and Women’s Hospital in Boston. This tragedy profoundly affected the cardiothoracic community and brought to light Dr. Davidson’s achievements in mastering sophisticated catheter skills and advocating for a future that would meld the cardiac catheterization lab with the operating theater. This award in his name will provide annual support of $25,000 for a deserving young early-career cardiothoracic surgeon (within 7 years of first faculty appointment at the time of application deadline) committed to the vision of innovative and collaborative cardiovascular care that Dr. Davidson helped pioneer.

Robert L. Replogle Traveling Fellowship Award

Robert L. Replogle, MD was a talented pediatric cardiac surgeon, as well as an educator, researcher, and national leader in cardiothoracic surgery. The purpose of the Replogle Fellowship is to facilitate the continuing education of a deserving young faculty surgeon committed to the treatment of congenital heart disease in neonates, infants, children, and adults. The award will be used for travel to another institution for the purpose of learning a novel technique, adapting innovative technology, and/or fostering collaboration between surgical investigators in order to further the progress of congenital heart surgery at the recipient’s home institution. This award in Dr. Replogle’s name will provide support of up to $10,000 for up to 2 weeks for congenital heart surgeons who are within 7 years of completion of an ACGME-accredited congenital cardiac surgery fellowship (or its international equivalent).
2016 Research + Education Award Recipients

Ankit Bharat, MD
Northwestern University
“High Carbon Dioxide Impairs Lung Repair”
TSF/NIH Matching K Award $150,000

“I am extremely grateful for the support I have received from the TSF. This grant has provided me with the opportunity to expand my research activities beyond institutional career development funding, will allow me to add more depth to my preliminary data, and will enable me to be more competitive for NIH funding.”

Matthew J. Bott, MD
Memorial Sloan Kettering Cancer Center
“Genomic Correlates of Histopathologic Classification in Lung Adenocarcinoma”
TSF Research Award $80,000

“I am very grateful for the support of the TSF. This funding will be instrumental in allowing me to further explore genetic alterations in lung cancer and hopefully will allow me to generate preliminary data that will be vital to my career as a surgeon-scientist.”

Elizabeth A. David, MD
UC Davis Medical Center
“Mixed-Methods Experimental Design and Data Analysis at the University of Wisconsin”
Carolyn E. Reed Traveling Fellowship Award $6,750

“This award will afford me the opportunity to seek additional research training and skill development in qualitative research methodology. I am excited about the opportunity to be able to add qualitative components to my quantitative projects, which will enhance opportunities for funding and increase implementation. Thank you to the TSF for supporting me and believing in me.”

TOTAL TSF RESEARCH + EDUCATION AWARD FUNDING

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Career Development</td>
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<tr>
<td>Simulation</td>
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<td>Surgical Outreach Missions</td>
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<tr>
<td>Fellowships</td>
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<tr>
<td>Research Grants</td>
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<tr>
<td>Educational Scholarships</td>
<td>$1,060,905</td>
</tr>
<tr>
<td>NIH (K08/K23/ACS Co-Sponsor)</td>
<td>$5,737,500</td>
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</tbody>
</table>

Total Funding $14,799,540

*As of March 8, 2017. Includes Alley-Sheridan Scholarships
"The STS Research Award will be of extraordinary benefit for my efforts as a surgeon-scientist. This award will help my team to generate meaningful data and be more competitive for extramural funding. The support is a tremendous boost for early career surgeons that want to impact the treatment of diseases and improve patient care. I am extremely grateful for this honor."

"I am exceptionally humbled by the support I have received from the TSF. The Nina Starr Braunwald Research Fellowship Award provides me the opportunity to study unknowns in the growing field of cell-based regenerative therapies for heart disease. Further, this award promotes my development from a resident to an independent surgeon-scientist."

"I would like to thank the TSF and STSA for this award, which will allow the initiation of a pilot study that will evaluate the two most commonly employed cerebral protection strategies that are used during aortic arch replacement. Hopefully, these data will fuel a larger, multi-institutional study that will provide insight into the optimal method of neuroprotection for patients undergoing surgical therapy for diseases of the aortic arch."

"I am grateful to the TSF for this generous research award. This extramural funding award will allow me to continue to generate novel data about right ventricular failure and recovery. Because of this grant, my applications for federal funding will be much more competitive, allowing me to become an independent surgeon-scientist."
Esophageal surgery has significantly evolved over the last 5 years, and less invasive options are available for patients with benign and malignant esophageal disease. As the Director of Esophageal Surgery at MSKCC, I would like to embrace what new technology and endoscopic approaches can be offered to patients with esophageal problems. The Reed Fellowship allows me to travel to the center that has developed some of these new techniques and learn directly from preeminent gastrointestinal surgeons and teachers.

I am extremely honored for the support I have received from TSF. The TSF Nina Starr Braunwald Research Fellowship will provide me the opportunity to spend 2 years pursuing cardiothoracic surgery research during my surgical training. This award will enable me to develop a strong research foundation on which I can build my future career as a surgeon-scientist.

The TSF award is an important milestone in my career as a surgeon-scientist, and I am truly thankful for the support from the Foundation. With this grant, I will be able to evaluate the efficacy of negative pressure dressings in the management of infected thoracic cavities. In addition to helping solve a tough clinical problem, this award will give me the boost I need to obtain intra and extramural funding for other projects.
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Weill Cornell Medical College
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University of California, San Francisco
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Mayo Clinic
*2017 Chair
2016 TSF Edwards Lifesciences Foundation Every Heartbeat Matters Awards

Ralph Morton Bolman III, MD
University of Vermont
“Increasing Access to Reduce the Burden of Rheumatic Heart Disease in Rwanda—Year II”
TSF/Edwards Lifesciences Foundation
Every Heartbeat Matters Award
$35,000

Emily A. Farkas, MD
CardioStart International
“Developing a Not-For-Profit Cardiac Surgical Program at Kathmandu University, Dhusikhele”
TSF/Edwards Lifesciences Foundation
Every Heartbeat Matters Award
$31,000

Mark E. Galantowicz, MD
Nationwide Children’s Hospital
“Education and Training of Underserved Cardiac Surgeons, Cardiologists, and Intensivists on the Surgical Management of Patients with Congenital Heart Disease (CHD); with an Emphasis on Treating Underserved CHD Patients with Valvular Conditions, e.g., Assessing Valve Repair, Replacement, or Catheter-Based Interventions in CHD Patients of All Ages”
TSF/Edwards Lifesciences Foundation
Every Heartbeat Matters Award
$31,000

Frederick L. Grover, MD
University of Colorado
“Enhancing Access to Care and Treatment of Cardiovascular Disease in Nepal”
TSF/Edwards Lifesciences Foundation
Every Heartbeat Matters Award
$35,000

V. Mohan Reddy, MD
University of California San Francisco
“Building Capacity for Pediatric Heart Valve Disease in Southeast Asia”
TSF/Edwards Lifesciences Foundation
Every Heartbeat Matters Award
$18,000

Robert D. Pascotto, MD
Heart Surgeries in the Dominican Republic
Surgical Outreach Missions
$5,000

*Not funded by Edwards Lifesciences Foundation
**TSF ALLEY-SHERIDAN SCHOLARSHIPS**

Ralph Alley, MD was a Founding Member of The Society of Thoracic Surgeons and served as President from 1975-1976. David Sheridan was an inventor and close friend of Dr. Alley who held more than 50 patents for innovations that have improved health care. Moved by his collaborator and friend’s commitment to thoracic surgery, Sheridan created the Alley-Sheridan Fund, which provides the following educational opportunities for cardiothoracic surgeons:

- **Leadership Program for Health Policy and Management:** TSF offers support of $2,500 toward the cost of tuition to attend the Leadership Program at the Heller School of Public Policy and Management at Brandeis University.
- **Surgeons as Educators:** TSF offers support of $2,500 toward the cost of tuition to attend the Surgeons as Educators Course hosted by the American College of Surgeons.

I give to the TSF because it is the organization that makes the biggest impact in promoting scholarship and professional development of cardiothoracic surgeons. I have personally benefitted, receiving an Alley-Sheridan Scholarship early in my career that has helped me become an effective advocate for policies that improve care for patients with cardiac and thoracic disease.

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TSF IS GRATEFUL FOR ITS MOST GENEROUS DONORS WHO HAVE GIVEN $10,000 OR MORE CUMULATIVELY.

“TSF truly represents our future. Without investing in ourselves, we can never hope to get better.”

John H. Calhoon, MD
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Robert B. Wallace, MD
Western Thoracic Surgical Association (WTSA)
The TSF allows the STS opportunity to support research and education that is critical to the ongoing advances for our specialty as it continues to evolve. It is through efforts such as these that our patients benefit and society as a whole will benefit.

Richard L. Prager, MD
University of Michigan Hospitals

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Dr. & Mrs. Robert B. Wallace
James M. Wilson, MD

*The TSF Heritage Society includes individuals and families who have planned for estate gifts to TSF.
2016 Annual Donor Honor Roll

TSF IS GRATEFUL TO ITS ANNUAL DONORS WHO HAVE GIVEN GIFTS OF ANY AMOUNT BETWEEN JANUARY 1 AND JANUARY 31.

I donate annually to the TSF to allow opportunities for young and mid-career CT surgeons to pursue specialized training and to continue research in a funding challenged environment.

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Boston Medical Center

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The Society of Thoracic Surgeons (STS)

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Partners Healthcare (Massachusetts General Hospital)

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<tr>
<th>OPTION</th>
<th>BENEFIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gift of appreciated assets</td>
<td>Income tax deduction</td>
</tr>
<tr>
<td>Charitable remainder unitrust</td>
<td>Payments and income tax deduction</td>
</tr>
<tr>
<td>Beneficiary designation</td>
<td>Estate tax savings</td>
</tr>
<tr>
<td>Life estate</td>
<td>Income tax deduction and use of home</td>
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