Today’s Learners, Tomorrow’s Leaders
2013/2014 ANNUAL REPORT
SPECIAL NOTE

Great effort was made to include all contributors in this report and to ensure the accuracy of names and titles. If we have erred, please accept our apologies and let us know so we may make corrections in the future.

ON THE COVER

Top row, from left: Jennifer Danielsson, MD, Columbia University, 2014 FAER Mentored Research Training Grant - Basic Science; Ankeet Udani, MD, Duke University, 2013 FAER Research Fellowship Grant; Brittany Shrefler, 2013 Medical Student Anesthesia Research Fellowship; Armin Schubert, MD, MBA, Ochsner Medical Center, Vice Chair for Programs, FAER Board of Directors; Andrew Hudson, MD, PhD, University of California Los Angeles, 2014 FAER Mentored Research Training Grant - Basic Science.

Bottom row, from left: Leif Saager, MD, Cleveland Clinic, 2014 FAER Mentored Research Training Grant - Health Services Research; Theresa Crowgey, Duke University, 2013 FAER Medical Student Anesthesia Research Fellowship; Tony Gun, MD, Duke University; Susan Martinek, MD, University of North Carolina Chapel Hill, 2014 FAER Research in Education Grant; Charles Emala, MD, MS, Columbia University; Jonathan Pan, MD, PhD, University of California San Francisco, 2014 Mentored Research Training Grant - Basic Science.
A LOOK BACK AT THE 2013-14 ACADEMIC YEAR

THANK YOU! The community of supporters, volunteer leaders, researchers and trainees who have invested in research by making donations to FAER are responsible for creating a better future for anesthesiology. Before we turn to celebrate the anesthesiologists who received FAER funding in the 2014-15 academic year, we look back at the many accomplishments of the 2013-14 academic year and thank everyone who helped make them possible.

2013 HIGHLIGHTS

- Seventeen anesthesiologists received FAER grants totaling $2.4 million. With these awards, FAER’s all-time funding surpassed $31 million.
- $2 million in new funding from government and foundation grants was awarded to Rebecca Aslakson, MD, PhD, assistant professor at Johns Hopkins University, who in 2013 completed work on her FAER-funded Mentored Research Training Grant “Crafting a Palliative Care Intervention for Surgical Intensive Care Unit Patients.”
- Two anesthesiologists, May Hua, MD (Columbia University) and Robert Schonberger, MD (Yale University), received the first-ever Mentored Research Training Grants in Health Services Research, supported by FAER and the Anesthesia Quality Institute. The MRTG-HSR provides funding of $175,000 over two years to faculty members who have completed anesthesiology residency within the past 10 years.
- The FAER Academy of Research Mentors in Anesthesiology marked its 10th anniversary in 2013 by welcoming new members Michael Avidan, MBBCh, DA, FCASA; John F. Capacchione, MD; Jianren Mao, MD, PhD; Y. S. Prakash, MD, PhD; Warren Sandberg, MD, PhD; Jay Yang, MD, PhD. The academy facilitates the development of educational and research programs for junior faculty members, and it supports faculty members in mentoring roles.
- Fifty-six medical students participated in summer anesthesiology research fellowships through FAER’s Medical Student Anesthesia Research Fellowship Program in 2013. 96% of those students would recommend the program to peers.
- The Resident Scholar Program, which started in 1989, celebrated its 25th anniversary. Over the past 25 years, the program has allowed residents to experience academics, science and education through the perspective of the American Society of Anesthesiologists annual meeting.
- Twenty-two physician-investigators who have received FAER funding within the past 10 years had some level of NIH funding in 2013 alone.
Funding Future Leaders

2014 FAER RESEARCH GRANT AWARD RECIPIENTS

The Foundation for Anesthesia Education and Research provides anesthesiology research grant funding in basic science, clinical, translational, health services and education research. In 2014, 16 anesthesiologists representing 13 institutions received FAER grants. The award funding exceeded $2.5 million, which is the highest amount FAER has ever awarded in a single year.

MENTORED RESEARCH TRAINING GRANT - BASIC SCIENCE

The Mentored Research Training Grant – Basic Science (MRTG-BS) is a two-year $175,000 grant for faculty members who have completed their anesthesiology residency within the past 10 years. The MRTG-BS aims to develop the skills and preliminary data anesthesiologists need to become independent investigators.

- Jennifer Danielsson, MD
  Columbia University
  Antagonism of the calcium-activated chloride channel TMEM16A: A novel target to treat bronchospasm
  Mentor: Charles W. Emala, MD, MS

- Andrew Hudson, MD, PhD
  University of California Los Angeles
  Network mechanisms of general anesthesia
  Mentors: Joshua T. Trachtenberg, PhD
  Aman Mahajan, MD, PhD

- Andrew McKinstry-Wu, MD
  University of Pennsylvania
  Top-down or bottom-up: Neuronal mechanism of alkylphenol anesthesia
  Mentor: Max B. Kelz, MD, PhD

- Jonathan Pan, MD, PhD
  University of California San Francisco
  Dexmedetomidine renders neuroprotection via modulation of systemic and local immune responses following rodent spinal cord injury
  Mentors: Michael Beattie, PhD
  Mervyn Maze, MB, ChB

- Matthew Pears, MD
  University of California San Diego
  Anesthetic toxicity: RhoGTPases, growth cone collapse, and axonal transport
  Mentors: Piush Patel, MD
  William Mobley, MD, PhD

- Reed Stary, MD, PhD*
  Stanford University
  Preserving mitochondrial function with microRNA-200c to improve stroke outcome
  Mentor: Rona G. Giardino, MD, PhD

- Jochen Steppan, MD
  Johns Hopkins University
  The role of LXX1 in vascular stiffness
  Mentors: Dan E. Berkowitz, MD
  Lakshmi Santhanam, PhD

- Norman Taylor, MD, PhD
  Massachusetts General Hospital
  The role of GABAergic and dopaminergic neurons in the peri-aqueductal gray on the descending inhibition of pain
  Mentors: Emery N. Brown, MD, PhD
  Ken Solt, MD

THANK YOU! FAER grants are made possible through the generous support of individual donors, the ASA and its component societies, subspecialty societies, departments and practice groups, and corporations.

*At the time of the FAER award, Dr. Stary also received additional extramural funding, which required him to decline the FAER grant.

MENTORED RESEARCH TRAINING GRANT - CLINICAL OR TRANSLATIONAL

The Mentored Research Training Grant – Clinical or Translational (MRTG-CT) is a two-year $175,000 grant for faculty members who have completed their anesthesiology residency within the past 10 years. The MRTG-CT aims to develop the skills and preliminary data anesthesiologists need to become independent investigators.

- Anne Drewry, MD
  Washington University in St. Louis
  Impaired immunity in hypothermic septic patients
  Mentor: Richard S. Hotchkiss, MD

- Heidi Smith, MD, MSCI
  Vanderbilt University
  Delirium in critically ill infants and preschool-aged children: Bedside tool validation, epidemiology and associated outcomes
  Mentor: Pratik P. Pandharipande, MD, MSCI

MENTORED RESEARCH TRAINING GRANT - HEALTH SERVICES RESEARCH

The Mentored Research Training Grant – Health Services Research (MRTG-HSR) is a two-year $175,000 grant offered by FAER and the Anesthesia Quality Institute (AQI). This grant provides funding for research and training in health services to faculty members who are within 10 years of having completed anesthesiology residency.

- Leif Saager, MD
  Cleveland Clinic
  Development and validation of a computer algorithm to detect artifact in electronic databases
  Mentors: Edward J. Mascha, PhD
  Daniel I. Sessler, MD

- Eric Sun, MD, PhD
  Stanford University
  The economics of chronic pain treatment
  Mentors: Sean Mackey, MD, PhD
  Jeremy D. Goldhaber-Fiebert, PhD

RESEARCH IN EDUCATION GRANT

The Research in Education Grant (REG) is a two-year $150,000 grant available to faculty members of all ranks. The REG is focused on developing innovative techniques for anesthesia education.

- Julian S. Bick, MD
  Vanderbilt University
  The impact of near real-time continuous feedback during basic transesophageal echocardiography training
  Mentors: Matthew McEvoy, MD
  Andrew Shaw, MD

- Susan M. Martinelli, MD
  University of North Carolina Chapel Hill
  Flipped classroom preferred over traditional classroom in resident education
  Mentors: Kenneth D. Royal, PhD
  Randall M. Schell, MD, MACM

RESEARCH FELLOWSHIP GRANT

The Research Fellowship Grant (RFG) is a one-year $75,000 grant available to anesthesiology residents after their CA-1 year. The RFG is awarded in conjunction with clinical training in anesthesiology residency or fellowship.

- Marcin Karcz, MD
  University of Rochester
  The role of antihistamines and nicotine metabolites in cardioprotection
  Mentors: Paul S. Brookes, PhD
  Lauren G. Glance, MD

For more information on FAER’s research grant program, including 2015 funding opportunities, visit FAER.org/research-grants.
Teaching Today’s Learners

MEDICAL STUDENT PROGRAMS

By providing fellowships to medical students with an interest in anesthesiology and research, FAER aims to expand the scientific talent in the specialty. FAER’s Medical Student Anesthesia Research Fellowships provide funding to support medical students over a summer—or a year—in focusing on anesthesiology research, training in scientific methods and techniques, and learning how to incorporate research into a medical career.

SUMMER FELLOWSHIP PROGRAM

The summer fellowship provides medical students with an eight-week research experience within an academic anesthesiology department. During the fellowship, students participate in research and training activities, as well as clinical anesthesia activities. In addition, medical student summer fellows have the opportunity to make a scientific presentation at the American Society of Anesthesiologists annual meeting. In 2014, 60 medical students are participating in the FAER MSARF program thanks to the hospitality of 37 host anesthesiology departments. The students will present their research at the FAER Medical Student Anesthesia Research Fellowship Symposium at ANESTHESIOLOGY™ 2014. To view the list of 2014 FAER medical student summer research fellows, visit FAER.org/MSARF.

EDWIN BECHER, III, 2013 FAER medical student fellow
Medical School: Indiana University School of Medicine
FAER MSARF Host Department: Northwestern University Feinberg School of Medicine

“The MSARF program opened my eyes to the world of academic anesthesiology, and my experience was hugely rewarding. I had the opportunity to work with an outstanding mentor who took an interest in developing my skills in research. She taught me the basics of consenting and recruiting, interviewing and data management for our qualitative study. I was also able to shadow several anesthesiologists in different subspecialties to better understand their clinical responsibilities.”

KATHRYN FARNI, 2013 FAER medical student fellow
Medical School: Loyola University Chicago Stritch School of Medicine
FAER MSARF Host Department: Mayo Clinic (Rochester, MN)

“The MSARF program was an ideal way to explore the field of anesthesiology during an extended period of time. While the occasional medical school shadowing or interest group events give you a few hours to interact with the field, the MSARF program gave me eight solid weeks to see the clinical and research sides of anesthesiology. ... MSARF gave me a chance to meet many anesthesiologists in the hospital in which I was working, and attending the ASA meeting also gave me the chance to meet anesthesiologists, medical students and researchers, and make connections that I can take advantage of as my career continues.”

REBECCA S. BICKHAM, B.S.
Medical School: University of Michigan Fellowship Institution: University of Michigan
Project Title: Predicting postoperative opioid-related adverse events and unplanned admissions in children with sleep-disordered breathing
Mentors: Alan R. Tait, PhD; Terri D. Voepel-Lewis, PhD

CLAUDIA L. SOTILLO, B.S.
Medical School: Boston University Fellowship Institution: Harvard Medical School, Brigham and Women’s Hospital Project Title: Next generation sequencing: An approach to identify genetic susceptibility for rheumatic heart disease
Mentors: Jochen D. Muehlschlegel, MD, MMSc, FAHA; Simon C. Body, MB, ChB, MPH, FAHA

YEAR-LONG FELLOWSHIP PROGRAM

The year-long medical student fellowship is for those who would like to spend a year focusing on anesthesiology research and receive additional training, and who have completed their core clinical rotations but have not yet graduated.

Through the program, medical student fellows can expect:
• One year of full-time research in anesthesiology
• A formal mentor-protégé relationship with an experienced investigator
• Training in scientific methods and research techniques
• A $32,000 stipend, plus additional funding to cover relocation, housing, health insurance, travel to a national meeting and other related expenses.

FAER’S 2014-15 MEDICAL STUDENT RESEARCH FELLOWS

For more information on FAER’s medical student fellowships, including 2015 funding opportunities, visit FAER.org/MSARF.

Simon C. Body, MB, ChB, MPH, FAHA
Mentors: Jochen D. Muehlschlegel, MD, MMSc, FAHA; Claire F. Delaney, MD, PhD, FAHA

RESIDENT PROGRAMS

Residency training and all that it encompasses provides the foundation for a lifelong career of learning, advancement and success. FAER offers several programs and opportunities dedicated to residents. Our goal is to provide anesthesiology trainees with experiences that expose them to the latest scientific knowledge, and to provide funding that supports significant training in research techniques and scientific methods.

RESIDENT SCHOLAR PROGRAM

The FAER Resident Scholar Program provides selected anesthesiology residents with the opportunity to attend the American Society of Anesthesiologists annual meeting each year.

By attending the ASA annual meeting, FAER resident scholars are able to:
• Hear the latest advances in anesthesiology from leaders in the specialty.
• Identify educational, scientific and political issues facing the practice of anesthesiology.
• Benefit from early involvement in the ASA by having direct interaction with leaders of the specialty and other anesthesiologists.

RESIDENT RESEARCH AWARDS

FAER recognizes and supports research excellence in residents by providing prizes for the best scientific posters presented at regional resident research conferences.

In 2014, FAER awarded six prizes each to residents at the following conferences: the Midwest Anesthesia Residents Conference (MARC), the Pennsylvania Residents Research Conference (PARRC), and the Western Anesthesia Residents Conference (WARC).

First place prize winners included:
MARC: Stephen Kolb, MD, Northwestern University Feinberg School of Medicine; Eric Simon, MD, Medical College of Wisconsin
PARRC: Saifeldin Mahmoud, MD, PhD, Penn State Milton S. Hershey Medical Center (First Place); Keith Vogt, MD, PhD, University of Pittsburgh Medical Center (Second Place)
WARC: Paul Riegelhaupt, MD, PhD, University of California San Francisco; Jed Walpse, MD, University of California San Francisco

For more information on FAER’s medical student fellowships, including 2015 funding opportunities, visit FAER.org/MSARF.
Founding Supporter

American Society of Anesthesiologists

The Foundation for Anesthesia Education and Research thanks its founding supporter, the American Society of Anesthesiologists, for its $2 million in funding in 2013.

Subspecialty Societies

$30,000

AUA

Association of University Anesthesiologists

$15,000 - $29,999

Society for Pediatric Anesthesia

education • research • patient safety

Up to $5,000

Society of Academic Anesthesiology Associations (SAAA)

Society for the Advancement of Geriatric Anesthesia (SAGA)

Society of Cardiovascular Anesthesiologists (SCA)

Society of Critical Care Anesthesiologists (SOCCA)

Society for Education in Anesthesia (SEA)

Society for Neuroscience in Anesthesiology and Critical Care (SNACC)

Society for Obstetric Anesthesia & Perinatology (SOAP)

Up to $999

Colorado Society of Anesthesiologists

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Mississippi Society of Anesthesiologists

New Jersey Society of Anesthesiologists

New Mexico Society of Anesthesiologists

Rhode Island Society of Anesthesiologists

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Contributors

Acknowledging contributions made between 1/1/2013 and 12/31/2013.

ACIE aimed to expand knowledge of invention and innovation in anesthesia, and educate anesthesiologists on how to be successful physician entrepreneurs. At the meeting, attendees met fellow anesthesiologists and innovators, investors and members from industry, who are interested in intellectual property development and technology commercialization. They also learned from experienced physician entrepreneurs, and a top-tier group of experts who discussed key ingredients underlying effective “bench to bedside” product development and technology commercialization efforts.

After ACIE’s sessions, workshops and networking, attendees were able to:

• Understand how to communicate about a product or invention with potential funding sources such as corporations, venture capitalists and financial institutions.

• Differentiate between various types of funding, such as corporate, venture capital and federal (Small Business Innovation Research grants).

• Know how to navigate pathways for technology licensing and commercialization at their institution, and tackle issues such as protecting intellectual property and patent agreements.

• Understand common regulatory issues and pathways for drug, device and combination products.

ACIE is a novel activity that exemplifies FAER’s mission to advance medicine through research and education in anesthesia. Thank you to the corporate sponsors (Cook Medical, Masimo, Baxter, Dräger and Piramal) for their generous financial support of the inaugural event.

Check out the ACIE Meeting Program/Syllabus and view presentations from the event by visiting FAER.org/ACIE.
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University of Michigan
Northwestern University Feinberg School of Medicine
Ohio State University
Oregon Health & Science University
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University of Pittsburgh
Rutgers New Jersey Medical School
Stanford University
State University of New York, Brooklyn (Downstate)
State University of New York, Stony Brook
Texas Children's Hospital
Thomas Jefferson University
Vanderbilt University School of Medicine
University of Washington
William Beaumont Hospital
Yale University

The FAER grant has not only provided me with the financial resources to pursue my research, but it has also been a catalyst for me to do my absolute best work. I am inspired to meet and exceed the expectations of the anesthesiologists on the grant committee who believed in my potential as a researcher and who have recognized the importance of my research interests to our specialty's future. ... I am so thankful for everyone who has contributed to make these FAER grants possible. Young investigators like myself are very lucky to have this type of support from our colleagues so early in our careers.”

Catherine Chen, MD, MPH
UNIVERSITY OF CALIFORNIA SAN FRANCISCO 2013 RESEARCH FELLOWSHIP GRANT RECIPIENT

ACKNOWLEDGING CONTRIBUTIONS MADE BETWEEN 1/1/2013 AND 12/31/2013

Acknowledging contributions made between 1/1/2013 and 12/31/2013.

The following anesthesia departments provided financial support for one or more MSARF participants in 2013.

University of Alabama at Birmingham
Brigham and Women’s Hospital
University of California Irvine
University of California San Francisco
Children’s Hospital Boston
Children’s Hospital of Philadelphia
Cleveland Clinic
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Stanford University
State University of New York, Brooklyn (Downstate)
State University of New York, Stony Brook
Texas Children’s Hospital
Thomas Jefferson University
Vanderbilt University School of Medicine
University of Washington
William Beaumont Hospital
Yale University

FOUNDATIONS AND TRUSTS

Associated Anesthesiologists Fund of the St. Paul Foundation
Children’s Hospital Medical Center Anesthesia Foundation
Gertie F. Marx Private Foundation
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Joseph C. Belche Trust
Redwall Foundation
Ronald L. Katz Family Foundation
The Hyman Family Charitable Foundation
The Saint Paul Foundation
Valley Anesthesiology Foundation
FAER Legacy Society honors people planning to make a gift to support anesthesia education and research through bequests in a will, trust, estate or retirement plan. Legacy Society members help safeguard the future of anesthesiology by ensuring that discovery, innovation and education will continue on behalf of the profession for which we are so deeply passionate.

FOR MORE INFORMATION ABOUT THE FAER LEGACY SOCIETY, VISIT FAER.ORG/LEGACY-SOCIETY.

REALIZING A DREAM, CULTIVATING A LEGACY

Carl C. Hug, Jr., MD, PhD, Professor of Anesthesiology, Emeritus, Emory University School of Medicine, and Emeritus Faculty at the Emory University Center for Ethics, spent more than 30 years of his career as an anesthesiologist and intensivist at Emory University Hospital, Crawford Long Hospital and the Veterans Administration Medical Center in Atlanta. Dr. Hug served on the FAER Board of Directors from 1994 to 1998, and was Chair of the Board from 1999 to 2001. He is former president and director of the American Board of Anesthesiology, and he received a Lifetime Achievement Award from SOCCA in 2002, and the Distinguished Service Chair of the Board from 1999 to 2001. He is former president and director of the American Board of Anesthesiology, and he received a Lifetime Achievement Award from SOCCA in 2002, and the Distinguished Service Award from the American Society of Anesthesiologists in 2006. Beyond his many professional achievements and contributions to the field of anesthesiology, Dr. Hug is dedicated to his family. He and his wife, Marilyn, have been married for 57 years, and have five children and 12 grandchildren.

Dr. and Mrs. Hug became members of the FAER Legacy Society last year, when they decided to give to FAER through a beneficiary designation on a retirement account. Although Dr. Hug’s passion for and dedication to the future of the specialty is no secret to those who know him well, he shared his vision for the future and why he and Marilyn have made a legacy gift to FAER in a letter to all anesthesiologists.

“I hope Marilyn’s and my planned gift to FAER helps preserve and enhance anesthesiology’s standing among medical specialties, and attracts talented young physicians to this specialty. I think it is critical to support junior faculty in developing their academic careers in anesthesiology teaching and research. Otherwise, there is risk that departments of anesthesiology will change to departments of anesthesia services. It has always been a challenge for anesthesiology to compete for research grants with other medical specialties. Support for research on patient safety has enhanced our profession while reducing medical errors, injuries, death rates linked to anesthesia, as well as malpractice risks. FAER supports development of qualified investigators who can study all aspects of anesthesiology.”

To read Dr. Hug’s entire Legacy Letter, visit FAER.ORG/LEGACY-SOCIETY.
I cannot express enough how much I appreciate the opportunity researchers and other students. My eight weeks in the MSARF surrounded by an enthusiastic and supportive group of doctors, Edmond I. Eger, II, MD Roderic G. Eckenhoff, MD Michael P. Eaton, MD Marcel E. Durieux, MD, PhD Michael J. Dupuy, MD John R. Cooper, Jr, MD Neal H. Cohen, MD Melvin A. Cohen, MD Jerry A. Cohen, MD Harriet A. Clarke, MD May L. Chin, MD+ James W. Chapin, MD Frederick W. Campbell, III, MD Matthew W. Caldwell, MD Manohar S. Bulagannavar, MD Randall P. Brewer, MD Philip F. Boyle, MD and Simon C. Body, MB, ChB, MD.

I am extremely grateful to the donors of FAER. You have allowed me the opportunity to pursue my passion in education with your generosity. I will use this year to gain expertise in medical anesthesiology and become a national leader in the field. In this way, I hope to broaden the scope of practice of anesthesiologists.

Steven E. Hill, MD Gary E. Hirsberg, MD Kiyako-Hori, MD Ida M. Hudson, DO Gopal Krishna, MD Thomas G. Johans, MD Jane M. Johans, MD

“$200 TO $499 (CONT'D) Solomon Aronson, MD Michael J. Avram, PhD Kristy Z. Baker, MD Dr. Richard and Ms. Catherine Bartkovich James L. Beeker, MD Richard A. Berkowitz, MD Paul C. Bicket, MD Julian F. Bisbooyck, MD, PhD Michael J. Bishop, MD Simon C. Body, MD, PhD Philip F. Boyle, MD and Kristine Boyle Randall P. Brewer, MD Sann J. Brul, MD, PhD Manohar S. Bulagannavar, MD Michael K. Cabahan, MD Matthew W. Caldwell, MD Frederick W. Campbell, III, MD Divya Chander, MD, PhD Wei Chai, MD James W. Chapin, MD May L. Chin, MD+ Harriet A. Clarke, MD Jerry A. Cohen, MD Melvin A. Cohen, MD Neil H. Cohen, MD Norman A. Cohen, MD John R. Cooper, Jr, MD Eric R. Davies, MD Glenn E. Deboer, MD Thomas M. Dodds, MD Lena E. Dohman, MD John C. Drummond, MD Michael J. Dupuy, MD Marcel E. Dureux, MD, PhD Michael P. Eaton, MD Rodlenc G. Ehrkenhoff, MD Edmond I. Eger, II, MD

I cannot express enough how much I appreciate the opportunity to have spent eight weeks working in a world-class institution surrounded by an enthusiastic and supportive group of doctors, researchers and other students. My eight weeks in the MSARF program has been of the highlight of my medical career thus far.

KATHRYN FARNI, 2013 FAER MEDICAL STUDENT FELLOWSHIP RECIPIENT AT MAYO CLINIC MEDICAL SCHOOL AT UNIVERSITY OF MINNESOTA STRIYCH SCHOLL OF MEDICINE

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I am extremely grateful to the donors of FAER. You have allowed me the opportunity to pursue my passion in education with your generosity. I will use this year to gain expertise in medical anesthesiology and become a national leader in the field. In this way, I hope to broaden the scope of practice of anesthesiologists.

ANKEET UDANI, MD, STANFORD UNIVERSITY 2013 RESEARCH FELLOWSHIP GRANT RECIPIENT

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ANKEET UDANI, MD STANFORD UNIVERSITY 2013 RESEARCH FELLOWSHIP GRANT RECIPIENT

I am extremely grateful to the donors of FAER. You have allowed me the opportunity to pursue my passion in education with your generosity. I will use this year to gain expertise in medical anesthesiology and become a national leader in the field. In this way, I hope to broaden the scope of practice of anesthesiologists.
consecutive years (2004-2013). Lifetime contribution totals were calculated using donations received from 1995 to 12/31/2013. Individual contributors listed in italics have supported FAER with $10,000 or more of donations in their lifetime. Individual contributors noted with an (+) have supported FAER for 10 or more years. Acknowledging total annual contributions made between 1/1/2013 and 12/31/2013. Individual contributors listed in bold have supported FAER with $25,000 or more of donations in their lifetime.

tribe and memorial gifts

in memory

Maurice S. Albim, MD in memory of Robert J. White Michael F. Aziz, MD in memory of Feki Azia, MD Kristy Z. Baker, MD in memory of William L. Young, MD Philip F. Boyle, MD and Kristine Boyle in memory of L.H. Boyle, MD Sonn J. Brul, MD, PhD in memory of Colleen Gotta, MD, CH James G. Carter, MD in memory of Jack Myeors, MD Jerry A. Cohen, MD in memory of David Paulus John R. Cooper, Jr, MD in memory of Arthur S. Keats, MD Roseric G. Ekenoff, MD in memory of Harry W. Linde, PhD Dr. and Mrs. Burton Epstein in memory of E.S. “Rick” Siker, MD Jane and John Fitch in memory of Melba R. and Lawrence H. Knott

James H. Fitzpatrick, Jr, MD in memory of John Kreul, MD Lawrence S. Gorfine, MD in memory of Robert Gorfine, MD Andrew A. Greenberg, MD in memory of Martin Helrich, MD Ernestine Hamel, MD in memory of Austin Lamont Merel H. Hamel, MD in memory of Austin Lamont John S. Hartox, MD in memory of in memory of E.S. (Rick) Siker, MD H. A. Tillmann Hein PhD, MD in memory of Adolph H. Giesecke, MD Carl C. Hug, Jr., MD, PhD in memory of Martin Helrich, MD Scott E. Kercheville, MD in memory of Betty P. Stephenson, MD C. F. Larson, Jr, MD in memory of Philip Bragmane, MD Demetra C. Leong, MD in memory of Clifford K.W. Chock, MD Susan R. Lisman, MD in memory of Collingwood Karmody, MD Colin F. Mackenzie, MD in memory of Martin Helrich, MD Lynne G. Maxwell, MD in memory of Elizabeth A. Martinez, MD Thomas T. McGranahan, Sr, MD in memory of Genevieve S. Burk, MD Thomas T. McGranahan, Sr, MD in memory of Donald D. Campbell, MD John B. Needel, Jr, MD in memory of Mrs. Cindy Zenas Patricia H. Petrozza, MD in memory of William L. Young, MD Julia E. Pollock, MD in memory of Christopher Bernardis, MD Richard C. Prielipp, MD, MBA, FCCM in memory of Nomla N. Prielipp Richard M. Schlobohm, MD in memory of Lucien E. Morris, MD Eugene P. Sinclair, MD in memory of Stephen C. Becker, MD Mr. David C. Wolfsen in memory of Mrs. Pa. Ina Zenas Mr. David C. Wolfsen in memory of Amanda Salisbury Ward Mrs.Monica Michenfelder in memory of Dr. J. D. Michenfelder Rita L. Orkin in memory of Louis R. Orkin, MD and Howard L. Zauder, MD, PhD Palm Beach Spine & Diagnostic Institute in memory of Robert Gorfine, MD Texas Society of Anesthesiologists in memory of Philip L. Reeves, MD Texas Society of Anesthesiologists in memory of John H. White, MD

in honor

Gregory C. Allen, MD in honor of DelWayne L. Enyeart, MD Douglas R. Bacon, MD, MA in honor of Alan D. Sessler, MD Paul E. Bigeleisen, MD in honor of Denham S. Ward, MD, PhD Charles M. Brolm, MD in honor of Julia A. Schroeder, MD Manohar S. Buluganavaram, MD in honor of Michael H. Marsh, MB, BS Selma H. Calmes, MD in honor of Denham S. Ward, MD, PhD Alan E. Curle, MD in honor of Denham S. Ward, MD, PhD Mrs. Christie L. Engelhardt in honor of Douglas Merrill, MBA, MBA, and Eugene Vasuci, MD Robert M. Epstein, MD in honor of Alan and Martha Sessler Elizabeth A. Frost, MD in honor of Paul Goldiner, MD DDS Joel G. Greenspan, MD in honor of Lawrence Saldman, MD Robert P. Intona, MD in honor of Dan C. Martin, MD Julie Kahlfield in honor of April Bacera, Paul Wright, Nora Mayen, Marguerita de Senna, Ronnie Lea Candaee E. Keller, MD in honor of James F. Arens, MD Jeffrey R. Kinch, MD in honor of Dawn Dillman, MD Carl Lynch, III, MD, PhD in honor of Dr. Cosmo Difazio Jonathan B. Mark, MD in honor of Merel H. Hamel, MD Mrs. Monica Michenfelder in honor of Alan D. Sessler, MD Leslie N. Milde, MD in honor of Richard Kitz, MD Thomas R. Murray, MD, PhD in honor of Bryan E. Marshall, MD Fredrick K. Orkin, MD in honor of Louis R. Orkin, MD Rita L. Orkin in honor of Louis R. Orkin, MD Susan K. Palmer, MD in honor of Joy-Hawksins, MD Jerome Panness, MD, PhD in honor of Alan D. Sessler, MD Daniel M. Philbin, MD, PhD in honor of Alan D. Sessler, MD Joseph V. Pyckman, CCF, MD in honor of Paul M. Kempen, MD,PhD Jeffrey H. Silverstein, MD in honor of David Reich, MD Gregory K. Unruh, MD in honor of Alan D. Sessler, MD Jeanine P. Wiener-Kronish, MD in honor of Hannah Wunsch, MSc, and Brian Kavanagh, MD Merrill N. Worhoven, MD in honor of Dr. Myrna Newland Mark P. Yeager, MD in honor of D. David Glass, MD Lawrence I. Young, MD in honor of Helen Miserheimer, PhD

honoraria

Galleon Pharmaceuticals honorarium for Denham S. Ward, MD, PhD Harvard Medical Faculty Physicians honorarium for Denham S. Ward, MD, PhD Lippincott Williams & Wilkins honorarium for the authors and editors of “Avoiding Common Anesthesia Errors” Lippincott Williams & Wilkins honorarium for the authors and editors of “The Anesthesia Technician & Technologist’s Manual” Northwestern University Feinberg School of Medicine honorarium for Denham S. Ward, MD, PhD Ohio State University honorarium for Denham S. Ward, MD, PhD University of Wisconsin honorarium for Denham S. Ward, MD, PhD

honor your mentor

Melanie J. Ald, MD in honor of Lewis Covelier, MD Robert F. Bedford, MD in memory of Donald Clark, MD Frederick W. Cheney, MD in honor of Thomas F. Hornbeam, MD Lena E. Dolman, MD in honor of Berend Meets, MB, PhD Dr. John and Ms. Gina Eisenach in honor of Michael J. Joyner, MD James C. Erickson, Jr, MD in honor of Leroy W. Krumperman, MD Neil E. Farber, MD, PhD in honor of David C. Warfrier, MD, PhD Isabelle I. Feryey, MD in honor of John Kampion, MD, PhD Dr. lan and Mrs. Esther Gilmour in honor of Frederick W. Cheney, MD Robert S. Griffin, MD in honor of Dr. Ken Hasely, MD Carin A. Hagberg, MD in memory of Andrikk Dovasapian, MD Clyde W. Jones, MD in honor of Parul R. Knox, MD Sean K. Kane, MD in honor of Andrew D. Friedrich, MD Drs. Sama and Kamal Khali in honor of Peter B. Kane, MD A. Morgan Laaster, MD in honor of Richard L. Boortz-Marx, MD Paranyakta Loopys, MD in honor of Dr. Anastasios Trantafilloy Anne M. Lynn, MD in honor of Thomas F. Horneman, MD Joseph J. Napoleon, MD in honor of John Schwies, MD David M. Polanie, MD, FAAP in honor of Warren M. Zapal, MD Jesse D. Roberts, Jr, MD in honor of Warren M. Zapal, MD John C. Rowlingon, MD in honor of Marcel Durieux, MD, PhD M. Christine Stock, MD in honor of Dr. John B. Downe, Shepard B. Stone, PA in honor of Nicholas M. Greene, MD Laurence C. Torsher, MD in honor of Alan D. Sessler, MD Susan A. Vassolo, MD in honor of George E. Battit, MD Anupama N. Wadhwa, MD in honor of Daniel I. Sessler, MD John P. Williams, MD in honor of Joseph C. Gabel, MD

donor recognition

To those generous individual donors, and the ASA, your support of FAER is helping to ensure the future of anesthesiology as a leading academic specialty.​

2013 mentored research training grant - basic science

Acknowledging total annual contributions made between 1/1/2013 and 12/31/2013. Individual contributors listed in bold have supported FAER with $10,000 or more of donations in their lifetime. Individual contributors listed in italics have supported FAER with $5,000 or more of donations in their lifetime. Individual contributors noted with an (+) have supported FAER for 10 or more consecutive years (2004-2013). Lifetime contributions totals were calculated using donations received from 1995 to 12/31/2013.

18
# Financials

## Financial Highlights for Fiscal Year 2013

These highlights are based on unaudited financials for the year ended December 31, 2013. For a copy of the complete audited financials, please contact the FAER office at 507-266-6866 or email FAER@faer.org.

## Income

<table>
<thead>
<tr>
<th>Source</th>
<th>2013 Income</th>
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</thead>
<tbody>
<tr>
<td>American Society of Anesthesiologists</td>
<td>$2,000,000</td>
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<tr>
<td>Corporate</td>
<td>$102,374</td>
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<tr>
<td>State Component Society</td>
<td>$68,220</td>
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<tr>
<td>Other Society</td>
<td>$61,000</td>
</tr>
<tr>
<td>Individual</td>
<td>$213,267</td>
</tr>
<tr>
<td>Anesthesiology Department, Practice Group</td>
<td>$340,200</td>
</tr>
<tr>
<td>Foundation/Trust</td>
<td>$33,202</td>
</tr>
<tr>
<td><strong>Total Income</strong></td>
<td><strong>$2,818,263</strong></td>
</tr>
</tbody>
</table>

## Expenses

<table>
<thead>
<tr>
<th>Source</th>
<th>2013 Expense</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRANTS/PROGRAMS</td>
<td></td>
</tr>
<tr>
<td>Research Grants</td>
<td>$2,071,997</td>
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<tr>
<td>Resident Scholar Program</td>
<td>$52,058</td>
</tr>
<tr>
<td>Medical Student Anesthesia Research / Fellowship Program</td>
<td>$177,590</td>
</tr>
<tr>
<td>Subspecialty Education Programs</td>
<td>$70,405</td>
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<tr>
<td><strong>Total Grants/Programs</strong></td>
<td><strong>$2,372,050</strong></td>
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<tr>
<td>GENERAL OPERATING</td>
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<tr>
<td>General Operating Expense</td>
<td>$631,708</td>
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<tr>
<td>Development Expense</td>
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<tr>
<td><strong>Total Operating Expense</strong></td>
<td><strong>$908,483</strong></td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td><strong>$3,280,533</strong></td>
</tr>
</tbody>
</table>

## Statement of Financial Position

<table>
<thead>
<tr>
<th></th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ASSETS</strong></td>
<td></td>
</tr>
<tr>
<td>Cash</td>
<td>$774,911</td>
</tr>
<tr>
<td>Investments</td>
<td>$23,222,411</td>
</tr>
<tr>
<td>Beneficial Interest in Trust</td>
<td>$374,834</td>
</tr>
<tr>
<td>Receivables</td>
<td>$107,877</td>
</tr>
<tr>
<td><strong>Total Assets</strong></td>
<td><strong>$24,880,033</strong></td>
</tr>
<tr>
<td><strong>LIABILITIES &amp; NET ASSETS</strong></td>
<td></td>
</tr>
<tr>
<td>Total Liabilities</td>
<td>$734,701</td>
</tr>
<tr>
<td>Undesignated Net Assets</td>
<td>$21,793,575</td>
</tr>
<tr>
<td>Net Income</td>
<td>$2,351,757</td>
</tr>
<tr>
<td><strong>Total Liabilities &amp; Net Assets</strong></td>
<td><strong>$24,880,033</strong>, <strong>$2,351,757</strong></td>
</tr>
</tbody>
</table>

## Board of Directors

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- **Alan D. Sessler**, MD - President Emeritus
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- **David Wolfson**, CFRE - Chief Development Officer
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- **Jody Clikeman**, Program Coordinator, Grants
- **Ginger Smith**, Program Coordinator, Medical Student and Resident Programs
- **Lori Nierman**, Administrative Assistant

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- **Margaret Wood**, MB, CHB - Columbia Presbyterian Hospital
- **Nikki Zapol**, JD - Partners Healthcare

**Financials**

- **2013 Income**: $2,818,263
- **2013 Expenses**: $3,280,533
- **Total Income**: $2,818,263
- **Total Expenses**: $3,280,533

**Cash**: $774,911
**Investments**: $23,222,411
**Beneficial Interest in Trust**: $774,834
**Receivables**: $107,877

**Total Assets**: $24,880,033
**Total Liabilities**: $734,701
**Undesignated Net Assets**: $21,793,575
**Net Income**: $2,351,757
**Total Liabilities & Net Assets**: $24,880,033

These highlights are based on unaudited financials for the year ended December 31, 2013.
IN MEMORIAM
Remembering FAER Founder Martin Helrich, MD, Establishing the FAER-Helrich Research Lecture in His Honor

The Foundation for Anesthesia Education and Research lost one of its founders, a loyal supporter and advocate, and above all, friend, in Martin “Marty” Helrich, MD of Baltimore, who passed away June 2013. He was 91.

With Marty’s passing, the specialty said goodbye to one of the pillars of the academic anesthesia community. Due in large part to Dr. Helrich’s passion for mentorship, advocacy on behalf of research and its funding, and pursuit of continuous learning, the field of academic anesthesiology has seen remarkable growth and recognition within the specialty.

Dr. Helrich had an exceptionally important role in the early days of the Foundation for Anesthesia Education and Research. As FAER’s first Executive Director from 1988 to 1995, he led the creation of its research grant program, established FAER’s endowment fund and grew it to $1 million by 1991, and helped form the Resident Scholar Program. His leadership and direction of FAER for 10 years helped grow the quality and quantity of scientific talent in anesthesiology, pain and critical care medicine.

FAER has chosen to honor Dr. Helrich’s memory by establishing a lecture at the American Society of Anesthesiologists’ Annual Meeting in his name. The FAER-Helrich Lecture, formerly the FAER Honorary Research Lecture, recognizes outstanding scholarship by an anesthesiologist and encourages other anesthesiologists to undertake careers in research and teaching. The inaugural FAER-Helrich Research Lecture will take place at ANESTHESIOLOGY™ 2014.

AN INSPIRATIONAL LEADER
Dr. Helrich grew up in Atlantic City, where he graduated from Atlantic City High School in 1940. From there, he earned his bachelor’s and medical degrees through a joint program at Dickinson College and the University of Pennsylvania School of Medicine. He completed his internship at Atlantic City Hospital, and then became an anesthesiology resident at New York University and the Bellevue Medical Center, where he learned from pioneers E.A. Ravenstine and E.M. Papper.

Following residency, Dr. Helrich served as chief of anesthesiology for two years in the U.S. Army at Ft. Polk, La. After his honorable discharge as captain, he and his family moved to Philadelphia, where he was a research fellow sponsored by the National Heart Institute, and eventually became an assistant professor of anesthesiology at the University of Pennsylvania.

In 1956, Dr. Helrich was recruited to the University of Maryland in Baltimore where he was named professor and chair of the newly established Department of Anesthesiology. He served as chair for 30 years. Upon his retirement in 1986, he was named Professor Emeritus.

Throughout his career, Dr. Helrich not only delivered superb clinical care, but he also taught residents and students, and participated in his own research activities. He published more than 85 peer-reviewed manuscripts, and his research was productive. His career was marked by several other accomplishments and leadership roles, including those at FAER. He served as director, secretary and president of the ASA, president of the Maryland-D.C. Society of Anesthesiologists, and a governor of the American College of Anesthesiologists. In 1995, the ASA honored him with its Distinguished Service Award.

Dr. Helrich’s contributions to the field of anesthesiology are not limited to his roles, titles, honors, or even his life. Because of his leadership and advocacy, anesthesiology prospered in medical schools and clinics across the country. Through his vision, partnerships among investors, inventors, and industry have enabled the careers of countless academic anesthesiologists. Thanks to his wisdom and kindness, anesthesiology thrives in the hands of the men and women he inspired. On both personal and professional levels, Dr. Helrich was treasured as a mentor and lifelong friend to his many grateful colleagues.

Dr. Helrich is survived by his wife, Ina, his two daughters, Lisa (Washington D.C.) and Karen (San Diego), and two granddaughters.

INFORMATION FOR THIS ARTICLE WAS PROVIDED BY THE UNIVERSITY OF MARYLAND AND THE AMERICAN BOARD OF ANESTHESIOLOGY.