



SOCIETY OF  
CARDIOVASCULAR  
ANESTHESIOLOGISTS  
**F O U N D A T I O N**  
CARE • INVESTIGATION • KNOWLEDGE



2008 ANNUAL REPORT

## Executive Summary

### History and Philosophy for the SCA Foundation

The SCA Foundation was established in October of 2007 as a means to support, expand and enhance the mission and programs of the Society. This annual report represents our first year of operation, covering a fiscal period from November of 2007 – October of 2008.

**Vision:** *We will be world leaders in enhancing patient care and safety and in developing excellence in the next generation of clinicians and physician-scholars through research and education in the field of cardiothoracic and vascular anesthesia.*

The SCA Foundation, through education and research, supports excellence in the care of patients undergoing cardiothoracic and vascular procedures. Guided by the tenants of the Society of Cardiovascular Anesthesiologists – care, education and knowledge – the SCA Foundation intends to:

- improve the care that cardiothoracic patients receive while undergoing procedures,
- expand our efforts to bring basic and clinical science research projects to fruition, and
- enhance education of both medical professionals and patients.

The ability to fund research and educational opportunities through the Society is constrained by a desire to keep annual dues affordable for all. A charitable foundation allows each SCA member to contribute based on financial ability. In this first year of existence, the SCA Foundation initiated both an annual campaign and a capital campaign. The support from the leadership and general membership of the SCA has been unprecedented. We have raised a total of \$3,602,133.83 in gifts and pledges for research, education and patient care.

**Investigation:** Research provides the foundation for effective clinical advances and is critical to improving patient care. This year, the Foundation partnered with Michael Roizen, the Anesthesia Foundation and the International Anesthesia Research Society to transform the SCA's research grant program, offer two new grants, and increase the level of grant support.

**Knowledge:** Physicians face a daunting volume of new knowledge and need effective ways to update and enhance their knowledge base. The Society provides many continuing education opportunities; new funding available through the Foundation will expand those efforts.

**Patient Care:** The cornerstone of the Foundation's efforts to improve patient care is the FOCUS Initiative, a multi-year human factors engineering collaboration with Peter Pronovost and the Center for Innovation in Quality Patient Care at Johns Hopkins School of Medicine.

Please join us in this exciting and visionary effort – it is easy to look to “others” to carry the day, but it will take each of us who love the Society to firmly establish the Foundation – to expand and enhance our research funding, to expand our education programs, and to initiate new and innovative educational efforts – such as an international exchange program for cardiac anesthesia fellows. The opportunities are fabulous – but we can't do it without you!

Joyce A. Wahr, M.D.  
SCA Foundation Board Chair

*We promote and support  
the SCA mission of excellence  
in the care of patients  
undergoing cardiothoracic and  
vascular procedures through  
education and research.*



## Board of Directors 2007–2008

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#### Johns Hopkins University School of Medicine Study Team

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Christine Goeschel, R.N., M.P.A., M.P.S.

Elizabeth A. Martinez, M.D.

David A. Thompson, D.N.Sc., M.S., R.N.

## CARE

The main cornerstone of our programming to improve patient care is the **FOCUS Initiative** (*Flawless Operative Cardiovascular Unified Systems*). FOCUS is a complementary and cooperative effort designed to raise the bar on patient safety through human factors engineering.

We are working with Peter Pronovost, M.D., Medical Director of the Center for Innovation in Quality Patient Care at the Johns Hopkins School of Medicine. This team's proposal was selected by the FOCUS Steering Committee from responses to a Request for Proposals sent to 60 institutions.

Dr. Pronovost has a special interest in applying research methods that improve quality of health care and safety, especially in critical care settings such as Intensive Care Units (ICUs) and operating rooms (OR). His expertise in this area has gained international attention, and Dr. Pronovost was awarded a MacArthur Genius Grant in 2008. On the national level, he is leading an effort with the Institute for Healthcare Improvement to develop an idealized ICU design. He is also developing standards for ICU quality measures with the Veterans Health Association. He is an active member of the National Coalition on Health Care and medical advisor for the Leapfrog Group for patient safety.

The FOCUS Initiative observes cardiovascular OR teams in various sites to study communication, human interaction, machine set up and design, team development and leadership. Ultimately, our goal is to improve patient care through the elimination of human error in the OR. In 2008, five study sites were chosen from a field of 36 applicants. Site visits are taking place in the winter of 2009.

In 2008, five study sites were chosen from a field of 36 applicants. Site visits are taking place in the winter of 2009. Initial sites include:

**Baystate Medical Center**  
(Springfield, MA)

Anesthesiologist: Gary Kanter, M.D.  
Surgeon: John A. Rosou, M.D.

**Lehigh Valley Hospital**  
(Allentown, PA)

Anesthesiologist: Nanette Schwann, M.D.  
Surgeon: Gary Szydlowski, M.D.

**Medical University of South Carolina**  
(Charleston, SC)


Anesthesiologist: Jake Abernathy, M.D.  
Surgeon: Fred A. Crawford, Jr., M.D.

**New York University**  
(New York, NY)

Anesthesiologist: Marc Kanchuger, M.D.  
Surgeon: Aubrey C. Galloway, M.D.

**St. John's Mercy**  
(St. Louis, MO)

Anesthesiologist: Christopher Young, M.D.  
Surgeon: Edward B. Savage, M.D.



The FOCUS Initiative observes cardiovascular OR teams in various sites to study communication, human interaction machine set up and design, team development, and leadership.



# INVESTIGATION

Basic science research provides the foundation for effective clinical advances. The SCA Foundation funds all of the research grants awarded by the SCA Research Committee. Grants for research projects are available to both beginning and mid-career investigators.

In 2008, the Foundation partnered with Michael Roizen, the Anesthesia Research Foundation, and the International Anesthesia Research Society to significantly enhance research funding. The generosity of these gifts has transformed the research program. In 2009, the following grants will be awarded:

**SCA/IARS Starter Grant** — \$25,000 a year for two years

**Roizen Anesthesia Research Foundation New Investigator Grant** — \$50,000 a year for two years

**SCA/IARS Mid-Career Grant** — \$40,000 a year for two years.

For the 2007–08 fiscal year, a total of four research grants were awarded, three starter grants to new investigators, and one mid-career grant to an established investigator.

### 2008 STARTER GRANT RECIPIENTS

Zhengyuan Xia, M.D., Ph.D. | Nitrate Tolerance Compromises Propofol Protection of the Endothelium Against Inflammation: the Role of PKC-B2 and NADPH Oxidase Interaction  
University of Hong Kong  
Hong Kong, China

Jochen Daniel Muehlschlegel, M.D. | Functional Analysis of Protease Activated Receptor-4 Polymorphisms Associated with Myocardial Injury  
Brigham and Women's Hospital,  
Harvard Medical School  
Boston, MA

Ragnar Huhn, M.D. | Does the Noble Gas Helium Protect the Myocardium in State of Hypertension in vivo?  
University of Amsterdam  
Amsterdam, Netherlands

### 2008 MID-CAREER GRANT

Mark Gerhardt, M.D., Ph.D. | Cytoskeletal Alterations in a Porcine Model of Restrictive Ventricular Septal Defect  
Ohio State University



*I am very excited about my SCA Starter Grant. It is the first external funding I have received since starting my job as an independent investigator at the*

*University of Hong Kong. It is very meaningful that I obtained this grant in my first year. This award is highly regarded by the Department and the Faculty. I expect it will prove helpful for future promotions. Academically, this grant shapes the direction of my research.*

*I will be able to focus my research on the peer-identified study of why the commonly used intravenous anesthetic propofol is not clinically cardiac protective when used at relatively low doses. The answer to this question may improve patient care both during anesthesia and post-operatively since this anesthetic is also administered as a sedative.*

*My grant is the first SCA funded study in Asia. The SCA/SCA Foundation research committee evaluates their grant applications solely on merit, not geographical location. I am greatly encouraged and tell my peers to join the SCA and apply for SCA Foundation support.*

— Zhengyuan Xia, M.D., Ph.D.  
University of Hong Kong  
2008 Starter Grant

## KNOWLEDGE

Early interest in cardiac anesthesiology must be developed to attract and retain the best and brightest medical students and residents. SCA educational programming includes offers of financial assistance for workshop attendance, materials and international outreach.

2007-2008 has seen an expansion of the funding available for education. Funds provided by the Foundation were used to provide a human torso to enhance learning in the SCA workshops. In addition, the generous support of the membership established the **Wynands Education Fund**.

The Wynands Fund kickoff was held on June 19th as part of our Annual Meeting. Over \$10,000 was raised to establish this fund, which will support educational seminars and lectures. The fundraising event honored John Earl Wynands, O.C., M.D., a Past President of the SCA.

As the SCA Foundation moves forward, we are establishing criteria for scholarships. Having a strong directive to build the next generation of cardiovascular anesthesiologists, our educational programs are currently focused on residents and fellows to build their leadership ability and mentoring skills.

### **John Earl Wynands O.C., M.D.**

John Earl Wynands (Earl) is Emeritus Professor of Anesthesiology at the University of Ottawa, in the capital city of Canada. Born in Montreal, Earl is perhaps best known in the cardiac anesthesiology world for his contributions to the care of patients undergoing revascularization of the heart. His seminal article entitled "Coronary Artery Disease and Anesthesia" was published in the Canadian Journal of Anesthesiology in 1967, and was followed by more than 100 publications over the next 30 years, including a series of papers in the 1980s on opioid "anesthesia."

Earl has been a beloved leader throughout his career. He has served as the President of the Canadian Society of Anesthesiologists and President of our own Society of Cardiovascular Anesthesiologists. He received the Gold Medal from the Canadian Society, and the first Distinguished Service Award from the SCA—the highest level of awards from both societies. Wherever he has worked, Earl has been a major resource to his colleagues and students, providing a sympathetic ear, offering wise and compassionate feedback and advice both professional and personal. Anyone with the good fortune to have known Earl realizes they have been touched by a unique and wonderful human being. Establishment of the Wynands Education Fund recognizes and continues his legacy of the highest quality of education in cardiovascular anesthesiology.

*Compiled and edited by James G. Ramsay, M.D.*



**The Founders Society** The supporters of the SCA Foundation are the founders of the organization. We wish to thank each of the following individuals for either making a gift to the Foundation or a pledge over multiple years to build our organization.

**Founder’s Circle**

Clinical Practical Enhancement and Anesthesia Research Foundation\*  
International Anesthesia Research Society\*  
Michael F. Roizen, M.D. \*  
Society of Cardiovascular Anesthesiologists

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Brian Tobias, M.D.

Claude P. Tousignant, M.D.  
Upstate Medical Anesthesiology Group, Inc.  
Sherien Verchere, M.D.  
Jeffrey Wilklow  
John P. Williams, M.D.  
David K. Wineinger, M.D.  
Steven R. Young, M.D.

**The Legacy League**

We are pleased to announce the Legacy League, a new program recognizing those extraordinary donors who remember the SCA Foundation through a bequest or planned gift.  
Judith A. Fabian, M.D.

**Honor and Memorial Gifts**

Our donors wish to recognize individuals that have made a difference in their lives through a gift made in honor or memory of certain individuals.

**In Honor Of**

James L. Gravlee  
Merel H. Harmel  
Melba R. and Lawrence H. Knott  
Albert C. Perrino  
Jack S. Shanewise

*\*Denotes pledge made over three or more years*

**Financial Report**

The SCA Foundation hired Goodman & Company to conduct an independent financial audit for the fiscal year of 2007-08. The audit was conducted in accordance with auditing standards generally accepted in the United States of America. The financial statements present fairly, in all material aspects, the financial position of the SCA Foundation as of October 31, 2008, and the changes in its net assets and its cash flows for the year then ended in conformity with accounting principles generally accepted in the United States of America.

**Society of Cardiovascular Anesthesiologists Foundation  
Statement of Financial Position**

**Assets**

Current assets		
Cash and cash equivalents	\$	33,802
Accounts receivable		2,000
Pledges receivable – net – current portion		520,838
Prepaid expenses		2,432
<b>Total current assets</b>		<b>559,072</b>

<b>Property and equipment - net</b>		7,318
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**Other assets**

Pledges receivable – net – less current position		1,713,815
Investments		1,246,315
		<b>\$ 3,526,520</b>

**Liabilities and Net Assets**

**Current liabilities**

Accounts payable and accrued expenses	\$	7,992
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**Net assets**

Unrestricted		1,377,569
Temporarily restricted		2,140,959
<b>Total net assets</b>		<b>\$ 3,518,528</b>
		<b>\$ 3,526,520</b>

**Society of Cardiovascular Anesthesiologists Foundation  
Statement of Activities**

**Unrestricted net assets**

Revenue and support:		
Contributions	\$	10,250
Net assets released from restrictions		421,354
SCA contribution loss		(82,021)
Investment loss		(261,466)

<b>Total revenue and support</b>		<b>88,117</b>
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**Expenses:**

Operating (see schedule)		253,779
Education		393
Research		101,514
FOCUS		27,787

<b>Total expenses</b>		<b>383,473</b>
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<b>Change in unrestricted net assets</b>		(295,356)
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**Temporarily restricted net assets**

Contributions		2,453,813
Net assets released from restrictions		(421,354)

<b>Change in temporarily restricted net assets</b>		2,032,459
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<b>Change in net assets</b>		<b>1,737,103</b>
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<b>Net assets – beginning of year</b>		<b>1,781,425</b>
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<b>Net assets – end of year</b>		<b>\$ 3,518,528</b>
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**Recognition Levels:** **Friend** – up to \$1,000 | **Associate** – \$1,000.00 - \$2,499.99 | **Partner** – \$2,500.00 – \$4,999.99 | **Builder** – \$5,000.00 - \$ 9,999.99  
**Creator** – \$10,000.00 - \$24,999.99 | **Foundation League** – \$25,000.00 - \$49,999.99 | **Cornerstone League** – \$50,000.00 - \$99,999.99  
**Inventor’s Circle** \$100,000 - \$249,999.99 | **Founder’s Circle** – \$250,000.00 and above



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