



# INTERFACE

SOCIETY FOR TECHNOLOGY IN ANESTHESIA  
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December 2004

## President Elect Statement Charlotte Bell

The year 2004 represented significant change for me in leaving Yale University after nearly 20 years and accepting a position as Director of Pediatric Anesthesiology at New York University School of Medicine. 2005 will bring substantial changes for the Society for Technology in Anesthesia. Our current President, Jeff Feldman, and his executive board have well-positioned our society for new growth and development.

I can't imagine that we can replace Beverlee Anderson as Executive Director of STA. She has served as CEO, CFO, Mother Superior and Father Confessor. Her wisdom, wit, diligence, and creativity have given this society many successful meetings, financial solvency, ACGME accreditation and a unique camaraderie. In her typical fashion, she has already arranged for a smooth transition to IARS organization systems over the course of the next year. I will still miss my friend at every STA gathering.

My goal for the upcoming year is simple: to broaden the interests of the society to include more clinicians, researchers, students, residents and members of industry. The daily practice of anesthesiology relies heavily on equipment, monitoring and technology and as such, our society should appeal to everyone in this specialty.

To this end, I will be establishing several new committees, recruiting new committee chairs and committee members to broaden our STA

membership. Dr. Mohamed Rehman from St. Christopher's Hospital in Philadelphia will be chairing a committee on wireless networking. Dr. D. John Doyle, MD, PhD, FRCPC from the Cleveland Clinic will be chairing a committee on Technology Education. John has been a pioneer in electronic education, producing treatises on the airway, monitoring, clinical information systems and others in paper and multimedia. He is charged with developing STA-sponsored projects for residents/students and for clinicians to improve understanding of the technology we use daily.

Dr. Leslie Jameson, Vice Chair of the Department of Anesthesiology at the University of Colorado Health Sciences Center will be Editor in Chief of the STA Technology Review. This online resource will provide short reviews of technology related articles from the medical literature. Reviews will be provided by committee members (Editorial Board). Over time, we anticipate that the Technology Review will provide an extensive, searchable educational resource. Leslie is currently chair of the ASA Subcommittee on Equipment Monitoring and Engineering Technology.

I see 2005 as a year of expansion for the STA. I charge each member to recruit 3 colleagues to join us in our mission. I welcome the recommendations and insight of our long standing members and look forward to new interest and growth.

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Visit our World Wide Web site: <http://www.anestech.org>

## Board of Directors 2005 - - Candidate Statements

### Candidate for President

#### George Blike, MD

I was introduced to the society as a resident in anesthesiology at Yale New-Haven Hospital by my enthusiastic Chair-Dr. Paul Barash. I have been hooked ever since. This society is unique in partnering clinicians with medical industry experts. The cornerstone of our society today, remains that constructive collaboration with industry fostered by the founders of the society. That partnership has certainly had a positive impact on the practice of Anesthesiology both in terms of our ability to achieve the goals of anesthesia care and our quest to improve patient safety. As President of STA, I would be always mindful of this unique aspect of our society. The specialty of anesthesiology attracts engineers and other technologically savvy and innovative clinicians. Medical technology companies need clinical experts to ground their inventions and technological solutions.

The health and vitality of this society depends on its membership. The technology centered collaboration with industry that attracted many of STA's original members, remains attractive to potential members today. Opportunities exist to maintain and foster this collaboration (at the STA Annual meeting, the ASA events, and through our society's publications). I am convinced this focus will maintain and grow our membership over the coming years.

and research fellowship at the University of Colorado where I remained for several years as an academic anesthesiologist and founded a lab which developed anesthetic monitoring technology; worked in private anesthesia practice in Seattle; served as VP of Medical Affairs of a medical device company; and now work at the Massachusetts General Hospital Departments of Anesthesia and Biomedical Engineering where I deliver anesthetic care in the "O.R. of the Future" and lead the medical device plug-and-play program.

Despite the frequent comment that there is "nothing new under the sun", we are observing a proliferation of computer-based devices that are complex and unfamiliar. Anesthesia machines have become too sophisticated for clinicians to easily troubleshoot and repair. Anesthesia machines with closed-loop control of exhaled anesthetic agent concentration are on the market, and are challenging to use safely without a detailed understanding of their unique performance attributes. "Smart" infusion technology promises to improve the safety of drug delivery. New airway devices promise no more missed tracheal intubations. Electronic medical records are proliferating, but inadequate device interoperability diminishes their value. Therefore, our role as a society dedicated to education about technology, and leadership in safe and rational anesthesia technology deployment is just as vital today as it was 15 years ago. If elected President, I will recommit our society to these goals.

### Candidate for President

#### Julian Goldman, MD

We have a unique society. In recognition of the rapid evolution of anesthesia technology and the essential link between safety and education in anesthesia technology, 50 people – led by Dr. N. Ty Smith - gathered for a breakfast meeting at the 1988 ASA annual meeting to form a new society, named it the "STA", and selected a governance team.

Look how far we've come. We have an expanding international membership, exciting annual meetings with strong corporate support, we support an annual competitive research project, and like proud parents, we recently spawned the society for medical simulation.

It has been my honor to serve the Society in several capacities since that first breakfast meeting in 1988. I chaired our membership and promotions committee for 5 years, as well as chairing the corporate development committee and the 2004 annual meeting, and currently hold the office of Treasurer. I also served as President of the Society for Computers in Anesthesia, now a component of the STA.

The Society's strength lies in its unique ability to bridge the clinical, academic, and corporate worlds of anesthesia technology. My own career has paralleled those relationships. I completed my anesthesiology residency

### Candidate for Member at Large

#### Chris Wiley, MD

I think I became a geek the day they installed the first rotary dial telephone in my home. I was probably 6 or 7 years old, and I remember being dazzled by the prospect of being connected with someone by dialing a series of numbers instead of speaking with an operator. A few years later I built a simple electronic calculator for a science fair project, but, as the son of a physician, had always planned on becoming a doctor rather than an engineer. As an undergraduate at Dartmouth in the early 70's, I was one of the few college students at that time with access to a timesharing computer system with a BASIC interpreter with which to program it. I was hooked, but I remained faithful to my aspirations in medicine.

It was doubtless fated that I would end up in anesthesiology, arguably the most techno-centric of specialties; and medical school and residency at Stanford allowed me to indulge my computer interests both at work and at home. Naturally, I attended one of the earliest "Computers in Anesthesia" meetings (Biloxi, MS) and joined STA not long after that. Over the years I've greatly enjoyed my association with STA along with the opportunity to speak on some of my esoteric interests such

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## Board of Directors 2005 - - Candidate Statements - Continued

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as nanotechnology and distributed computing as well as co-edit our newsletter, *Interface*, for a time along with George Blike. It's been a particular pleasure to meet likeminded souls in both anesthesiology and industry who come to our Society literally from around the world. Thus, it's a real honor for me to be nominated for a Member-at-Large position on the STA Board of Directors.

Technology in general and medical technology in particular, has been progressing at a rapid and ever-accelerating rate for my entire life. I can now reminisce about rotary phones and the Dartmouth Timesharing System while holding in my hand a cell phone/PDA which can connect me to a worldwide communication and computing network from virtually anywhere. Greater changes lie ahead. Therefore, I think the role of STA as a mechanism for exchanging ideas and information about the role of technology in anesthesia will, if anything, increase. I believe we should remain true to our original focus on the wide range of technological innovations coming from the clinic, research, and industry. Our place is at the cutting edge, and there we should stay. I realize that there are practical reasons to be concerned about membership numbers, meeting attendance, and journal submissions; but I'm convinced that our most effective strategy is to embrace the broadest range of new technology.

### Candidate for Member at Large James Szocik, MD

I have been a member of the Society for Technology in Anesthesia since 1995. Currently, I am serving as the editor for the *Interface*, the society's newsletter. As a board member at large, I would work with the rest of the board in furthering the goals of the society.

The Society's mission is to improve the quality of

patient care by improving technology and its application. The Society promotes education and research, collaborates with local, national, and international organizations, sponsors meetings and exhibitions, awards grants, and recognizes achievement

**My vision:** Society (and anesthesia) is at an interesting point. Technology has become ubiquitous, while simultaneously becoming less intuitive and understandable to most people. Hence, the formulation of Clark's law: A sufficiently advanced technology is indistinguishable from magic. The Society for Technology in Anesthesia can do a lot to counter that.

**Point 1: Education:** I use a lot of analogies in my teaching (and writing). They aren't perfect. But they convey the meaning I'm after and allow the resident/reader to make predictions about the behavior of the black box, give them control over the situation and avoid the magical thinking that comes from Clark's law.

In education we need to establish a database of concise articles on technology that are readable to the majority of clinicians to remove the "black box" aspect of technology that we use daily. One of my strengths is that I can communicate with people who are not very knowledgeable or comfortable with technology as well as those who are very tech savvy. I am able to stand in the middle and bridge the gap.

**Point 2: Industry.** The STA has a unique role and opportunity in our historical relationship with industry to bridge research and education and bring new functional working technology to the marketplace, the users, and our patients. This is important because although industry often gets a bad rap we need them and they provide us with the necessary tools. I know of no other venue in which industry, academics, and clinicians have a free exchange of ideas.

We need to bridge that perceived gap between society and industry. Mainstream medicine and the media see pharmaceutical companies and their kin as positively evil. We need to help restore the image of industry as being innovative and educational. Companies that make a better mousetrap don't need to be dishonest or secretive. A

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### STA Dinner Ty Smith Annual Lecture



Peter Fine, MD Timothy Ulrich Ty Smith, MD

### Candidate for International at Large Ilkka Kalli, MD, PhD, MBA

(Disclaimer: I am the editor-in-chief for the *Clinical Window Web Journal*, sponsored by GE Healthcare.)

I believe in integration, networking, and synergy. Hence, as International at Large, I will promote networking between scientific societies, and facilitate communication between people with different backgrounds, including medicine, technology, and industry. From this, STA globally would offer a scientific

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## Board of Directors 2005 - - Candidate Statements (Continued)

*[Continued from page 3]*

platform not only for us, but also for other societies, interest groups, and stakeholders in the field. I have been a horizontal integrator throughout my professional life. Looking back at what I have done, I see my clinical profession, medical science, and healthcare technology tracks. I always wanted to combine medicine and technology, and this desire made me select anesthesiology as my specialty

**Clinical profession:** After my residency at the Helsinki University hospital, I was appointed to a staff position, and have worked for over 20 years with a diversity of patients from adults to pediatric, from transplants to obstetric anesthesia. Still today, I work regularly in OB/GYN in addition to my other activities. I liked to measure and monitor the patents, and my Ph.D. thesis is on monitoring neuromuscular block in infants and children.

For a good part of 1999, I had the great professional experience of being in Gainesville, Florida. It was an interesting time, in that I was both a visiting professor at the UF Dept. of Anesthesiology, and also was a MBA student. During this time, I completed my MBA with computing courses at the UF College of Business. This full-time, two-year MBA with international and ICT orientation had courses at the Universities of Helsinki and Florida. The reason for this was the desire to deepen my understanding of other sciences.

**Medical science:** From mid 1980's, I started going to the Rotterdam computers and anesthesia congresses. There I came to know many of the founding fathers of STA. When ESCTAIC was established 15 years ago, I was invited to be one of the founding members. Soon, I became European editor for the Int. J. Clin. Monit. Comput., together with Professors Gardner and Prakash. In the mid 1990's, I represented that journal during the merger negotiations with editors of STA. Trusting each other, we decided to merge the two journals to make the J. Clin. Monit. and Comput. Since then, I had the pleasure of working with the two American editors (Drs. Gravenstein and Feldman) in this new official journal both for STA and ESCTAIC. Publishing is an important part of medical technology research. In brief, I am happy to see that STA has made a successful choice in its reorganizing some years ago.

In 2000, just back home from Florida, my medical publishing work got a new direction, as Datex-Ohmeda invited me to be the editor-in-chief and create a concept for a clinical education web publication. Seemingly, medical publishing has become my other profession, and the fascinating thing has been to move from traditional printed journals to e-publishing. It is a stimulating challenge for a physician and MBA, since as of today there are nearly 10,000 monthly visitors at the site:

[www.clinicalwindow.net](http://www.clinicalwindow.net).

**Healthcare technology:** I made a short visit to the

government organization, as senior medical officer for the office of health technology assessment. There, I learned a lot of EBM thinking, and saw new ways to organizing things.

Having been an anesthetist and a medical advisor for industry (Datex-Ohmeda) for nearly 20 years, I had worked with people of various educational backgrounds. Through this, I have learned to see how differently healthcare organizations and hi-tech global industry with innovative R&D can be constructed. D-O annually renewed my consultation agreement. Recently, as GE Healthcare bought D-O, I was delighted when they asked me to continue.

I conclude that as International at Large, I will offer STA synergy, horizontal thinking, and international networking between science, industry, and clinical medicine.

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### Candidate for Industry At Large

#### Robert Evans, DO

Initially a Respiratory Therapist working in Anesthesia at Cook County Hospital in Chicago, my interest in anesthesia equipment piqued while developing a jet ventilator for micro-laryngeal surgery. This later re-emerged in laboratory studies on high-frequency and cardiac-cycled jet ventilation during residency at Duke after graduating from CCOM (now Midwestern University) in Chicago. While there I was privileged to use the first networked system of computerized records, DAME (Duke Anesthesia Monitoring Equipment) and became interested in developing ways to digitally detect what drugs are being administered for automated input to the computer. This later became the basis for DocuSys, an anesthesia information system that incorporates drug management and automated documentation of which I am a co-founder. After joining the Duke faculty briefly, I was invited to help start a new residency training program at the University of South Alabama in Mobile. Leaving academics several years later, I joined and later became one of the Board of Directors of Anesthesia Services, P.C. as well as the Clinical Director for one of the hospitals served by the practice.

Over the years I have enjoyed many contacts with developers of medical devices and products from breathing systems to disposable devices. I have also learned the challenges of practice and surgery schedule management; having lived in academics, private practice, and the corporate world offers interesting perspectives. The growth and development of medical equipment must have clinical insight and input or the result too often is a product or service that misses the mark. As Corporate Liaison for STA, I would be privileged to serve this community any way I can.

## STA Report – Breakfast Panel 2004



Kirk Shelley, MD, PhD  
New Haven, CT



Hugh Allen, MD  
Seattle, WA



Ravindra Prasad, MD  
Chapel Hill, NC



Keith Ruskin, MD  
New Haven, CT

### Candidate Statements (Continued)

#### Candidate For Member at Large Peter Fine, M.D., M.S.

I received my B.S. at the University of Michigan, and completed a M.S. in bioengineering while a senior. After attending medical school at New York University, I began my anesthesiology residency at Yale, where I met many of the founding leaders of the STA. After joining the faculty of New Jersey Medical School, I have pursued research interests of automated signal analysis of heart tones, operating room modifications for a small, mobile intraoperative MRI, and changes in fMRI signals from painful stimuli during anesthesia.

The STA has reached a new level of maturity, having given rise to a new organization- the Society for Medical Simulation (SMS). I believe the STA is at a crossroads. The STA may potentially lose the ability to market itself to new members, or it could use the separation to focus its efforts on adapting the latest technological advances from outside medicine to the world of anesthesiology. The board must aggressively market the STA toward new members, whether attendings or residents. This may include networking with our colleagues within the society, to visiting other institutions, and promoting the work of the STA within the ASA.

#### Candidate for Industry at Large Heidi Hughes, RN

Currently Director of Sales and Marketing for Andros Inc. a leading supplier of OEM gas analyzers for the Medical, Automotive and Environmental industries where she has been for the last 2 ½ years, although based out of Sweden. She is responsible for the sales and marketing team and their activities world wide as well as their service operation in Germany. Prior to Andros Inc, Heidi was responsible for International Marketing for the Anesthesia systems at Siemens and was based in the Swedish Headquarters. She is Australian, but has been living in Sweden for nearly 8 years and speaks Swedish

She has over 20 years of experience in the medical industry, including extensive clinical experience in Anesthesia and Critical Care, holding a Bachelors degree in Science with a Major in Critical Care Nursing as well as formal Marketing qualifications. Prior to Siemens Heidi worked for Ohmeda in Australia as National Product Manager and was also responsible for the Puritan Bennett products in Australia and New Zealand as they were distributed by Ohmeda in that region.

At both Andros Inc and at Siemens, she is responsible for all aspects of sales and marketing, as well as working  
*[Continued on page 6]*

## ASA Abstract Awards

### Best Clinical Application of Technology

#### [A575] The Acoustic Sensor for Monitoring Ventilation of Separate Lungs

Shai M.R. Tej-man Yarden, MD

Alex Zlotnik, MD

Anon Cohen, PhD

Gabriel M. Gurman, MD

Department of Anesthesiology,  
Soroka Medical Center, BeerSheba, Israel

\*\*This abstract described the use of sophisticated digital signal processing combined with clever microphone placement to separate the sounds of ventilation of each lung.

### Excellence in Technology

#### [A599] A Pilot Study of Continuous Transtracheal Mixed Venous Oxygen Saturation Monitoring

Wei Wei, MD

Jin Liu, MD

Yun Xia Zhu, MD, PhD

Department of Anesthesiology, West China Hospital of  
Sichuan University, Cheng-du, SiChuan, China

\*\*This remarkable abstract described the development of a trans-tracheal pulse oximeter system that allowed for the monitoring of mixed venous oxygen saturation in the pulmonary artery.

### Grant Winner

#### Study of pulse oximetry algorithms in children with low oxygen saturation

Allan Shang, MD, MSE

Duke University

\*\*This is a well-designed and controversial study that directly addresses a known weakness of commercial pulse oximeters.

## Candidate Statements (Continued)

[Continued from page 5]

closely with R&D for product development, Technical Support and Quality and Regulatory Affairs (at Andros Inc she is one of two people responsible for all QA and RA activities).

Extensive travel supporting the products in the field, and numerous presentations at many International Anesthesia Congresses, has made Heidi well known to the major Anesthesia Societies around the world. She has been very involved with the STA for the last 9 years both as an exhibitor and as an attendee and feels strongly that industry can and should work together more closely with the STA to the benefit of both.

### Candidate for Treasurer

David M. Feinstein, M.D.

I am a staff anesthesiologist and Director of IT and



Executive Director: Beverlee Anderson at the STA booth  
– ASA 2004

Simulation Training in the Department of Anesthesia and Critical Care of the Beth Israel Deaconess Medical Center in Boston. As a CA-2 resident in 1990 I was invited to join the STA as a member of the education committee by Dr. Alan Grogono and have been an active member since then. Over the past thirteen years I have had many roles in the STA. These roles include organizing the first simulation workshops, STA membership committee chair, 2003 Annual meeting chair, 2004 Computers in Anesthesia Meeting scientific chair and Director At-Large on the STA Board.

I am running for the office of Treasurer in the upcoming STA election and am honored to be considered for this position. This year marks an important transition for our society as we hand over the management of the STA from Beverlee Anderson to the IARS group. Frankly, we have been spoiled by Beverlee, who has done an amazing job for all of us. As your treasurer I will try to ensure the continued financial strength of our society as we move into the future.

### Candidate for Treasurer

Peter Lichtenthal, MD

Although I was born in Belfast, North Ireland, I grew up in White Plains, New York. I received my B.A. from the University of Vermont and went to medical school at New York Medical College. After a rotating internship at Hartford Hospital, I was a resident in anesthesia at the Peter Bent Brigham Hospital. Following residency, I spent a year doing a cardiac research fellowship at the

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**STA 2005: Hot Tech for Anesthesia:  
Making Capital Equipment Decisions  
January 13 – 15, 2005  
Radisson Resort, Miami Florida**

**Wednesday, January 12, 2005**

10:00 – 3:00

Meeting of the STA Board of Directors

2:00 – 4:00

Registration – continues daily 7 am – 4 pm

**Thursday, January 13, 2005**

7:00 – 8:00

Continental Breakfast

8:15 – 9:30

Keynote Debate:

The Promise of New Anesthesia

Technologies... Techno-fantasy vs. Tangible  
Improvements

Richard I Cook, MD PhD, Cognitive Technologies  
Laboratory, University of Chicago

9:30 – 10:00

Break

9:00 – 12:00

**Hot Tech Topic #1 – Portable Ultrasound**

**Technologies**

Panelists:

Brian Sites, MD, Director of Regional  
Anesthesia, Dartmouth Medical Center  
Brian Spence, MD, Assistant Prof. Of  
Anesthesiology, Dartmouth Medical Center

12:30 – 2:00

**STA Annual Awards and Business Luncheon**

Presentation of the J. S. Gravenstein Technology  
Award

2:00 – 5:00

Local activities

5:00 – 5:30

Research Session I – Oral Presentations

5:30 – 6:30

Research Session II – Professor Rounds Posterside

5:30 – 7:00

Focus Group \*

7:00

Welcome Reception in Technology Showcase area

**Friday, January 14, 2005**

7:00 – 8:00

Continental Breakfast in Technology Showcase Area

8:00 – 8:30

Joint Session Opening:

Past, Present and Future: the unique relationships  
between STA & IMMS

Jeff Feldman, MD, President STA  
Dan Raemer, PhD, President SMS

8:30 – 9:30

**Joint Session with International Meeting on  
Medical Simulation**

SocioTechnical Simulation and Care Process  
Transformation

Paul Uhlig, MD, MPA, Massachusetts  
General Hospital, Boston, MA

9:30 – 10:00

**Technology Showcase; Posters and Demonstrations**

10:00 – 12:00

**Hot Tech Topic #2 – Non-OR Anesthesia (NORA)**

**Technologies**

Moderators:

Charlotte Bell, MD, Chief of Pediatric  
Anesthesiology NYU, NY;

Panelists

Jay Iaconetti, MD, Director of NORA at Fairfax  
Hospital, VA,

Beverly K. Philip, MD Director of NORA at  
Brigham Women's Hospital, MA

- Context of care-the environment, hazards  
and unique challenges
- Portability- monitors, drug delivery systems,  
transport equipment, drug security
- Footprints - setting up NORA suites,  
information management, electronic  
records
- Operations- scheduling, credentialing,  
billing, purchases both for safety and  
economics

12:00 – 5:00

**Lunch on your own followed by local activities**

Indicate (on your registration form) an interest in playing  
golf near-by. Check out the Art Deco world of Miami  
And then there is always South Beach

5:00 – 7:00

**Show and Share – Anesthesia technology applications  
for handhelds, laptops, office or home\*\***

Session Chair:

Peter Fine, MD, UMDNJ

- Demonstrations of software applications
- Sharing (using portable USB drives, CD's,  
Flash Memory, etc.)
- Networking to problem solve

5:00 – 6:30

**Focus Group\***

7:00 – ?

**Jimmy Buffett's Marguriteville Buffet and great  
social gathering**

[Continued on page 4]

## STA 2005 [Continued]

### Saturday, January 15, 2005

7:00 – 8:00

Continental Breakfast in Technology Showcase Area

7:30 – 8:00

STA Corporate Members' & Exhibitors' Presentations\*\*\*

8:15 – 9:15

Hot Technology Review 2005:

Speaker:

George Blike, MD, Director of Dartmouth Medical Interface Lab., DHMC

- A comprehensive review of current and emerging technologies relevant to state-of-the-art anesthesia practice.
- Review will cover all aspects of peri-operative process from preop assessment to post-operative pain management.

9:15 – 9:30

Technology Showcase; Poster and Demonstrations

9:45 – 10:45

Hot IT Review 2005

Speaker:

Michael O'Reilly MD, University of Michigan

- A comprehensive review of current and emerging information technologies relevant to state-of-the-art anesthesia practice.
- Review will cover all aspects of peri-operative process from preop assessment to post-operative pain management.

10:45 – 11:00

Technology Showcase; Poster and Demonstrations

11:00 – 12:00

Genomics, a Critical Anesthesia Technology in the Future:

Brian Donahue, MD, Vanderbilt University, Nashville, TN

## Poster Timetable

### Poster Put Up

Wednesday, January 12

2:00 – 4:00 pm

Thursday, January 13

before 7:00am

**Authors will be in attendance with their posters during the following times:**

Thursday, January 13

9:30 – 10:00am

5:30 – 6:30pm

Friday, January 14

7:00 – 8:00am

9:30 – 10:00am

### Posters Taken down

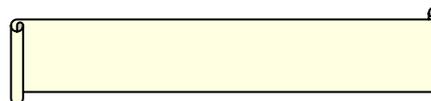
Friday, January 14

10:00 – 10:30 am

\* Focus Groups are sessions presented by STA Corporate Members who wish to have in-depth discussions with small groups regarding their technology, equipment. No CME is offered for these sessions. Focus Group sign-ups will indicate if there are attendance restrictions.

\*\* Registrants are encouraged to bring their software applications on a mini-USB drive. Demonstrations from the podium will be scheduled by the Session Chair.

\*\*\* Industry representatives will fully disclose their associations with their company and the technology they represent. No CME is offered for this session.



## Candidate Statements (Continued)

[Continued from page 6]

Harvard Medical School. After fellowship, I served in the United States Navy stationed at Bethesda Naval Hospital.

Following service, I worked for Northwestern University Hospital for 21 years before moving to Tucson five years ago. My research interests have been in the drug and device areas. Since moving to Tucson, I have become active in STA. At present I am responsible for Corporate Membership and Exhibits at the annual meeting. I hope to more actively participate in STA activities in the future.

[Continued from page 3]

good/great product sells itself.

**Point 3: Research.** This used to be the life's blood of academics across the world. However, the numbers of "triple threat" researcher/educator/clinician are falling. Clinical work, academic work, education, and family take time. No one person can do it all these days. As the STA we can network our strengths and improve the technology available to us as practitioners.

We need to establish our society as a ruthlessly unbiased evaluator of technology whose opinion will be respected by both industry and the public.

## Board of Directors

|                                 |   |
|---------------------------------|---|
| <b>President</b>                | Jeff Feldman<br><a href="mailto:feldmanj@comcast.net">feldmanj@comcast.net</a>                        |
| <b>Secretary</b>                | Bosseau Murray<br><a href="mailto:wbmurray@psu.edu">wbmurray@psu.edu</a>                              |
| <b>Treasurer</b>                | Julian Goldman<br><a href="mailto:julian@acmeanesthesia.com">julian@acmeanesthesia.com</a>            |
| <b>Executive Director</b>       | Beverlee Anderson<br><a href="mailto:STA@anestech.org">STA@anestech.org</a>                           |
| <b>Immediate Past President</b> | Robert "Butch" Loeb<br><a href="mailto:rlueb@u.arizona.edu">rlueb@u.arizona.edu</a>                   |
| <b>Member at large</b>          | David Feinstein<br><a href="mailto:dfeinste@caregroup.harvard.edu">dfeinste@caregroup.harvard.edu</a> |
| <b>Member at large</b>          | Sem Lempotang<br><a href="mailto:sem@anest4.anest.ufl.edu">sem@anest4.anest.ufl.edu</a>               |
| <b>Member at large</b>          | Mike Petterson<br><a href="mailto:mpetters@masimo.com">mpetters@masimo.com</a>                        |
| <b>A &amp; A Section Editor</b> | Steve Barker<br><a href="mailto:sjbarker@U.Arizona.edu">sjbarker@U.Arizona.edu</a>                    |

## LET US HEAR FROM YOU!

The Editor, Interface  
OR

Send Email to:  
[Jszocik@med.umich.edu](mailto:Jszocik@med.umich.edu)

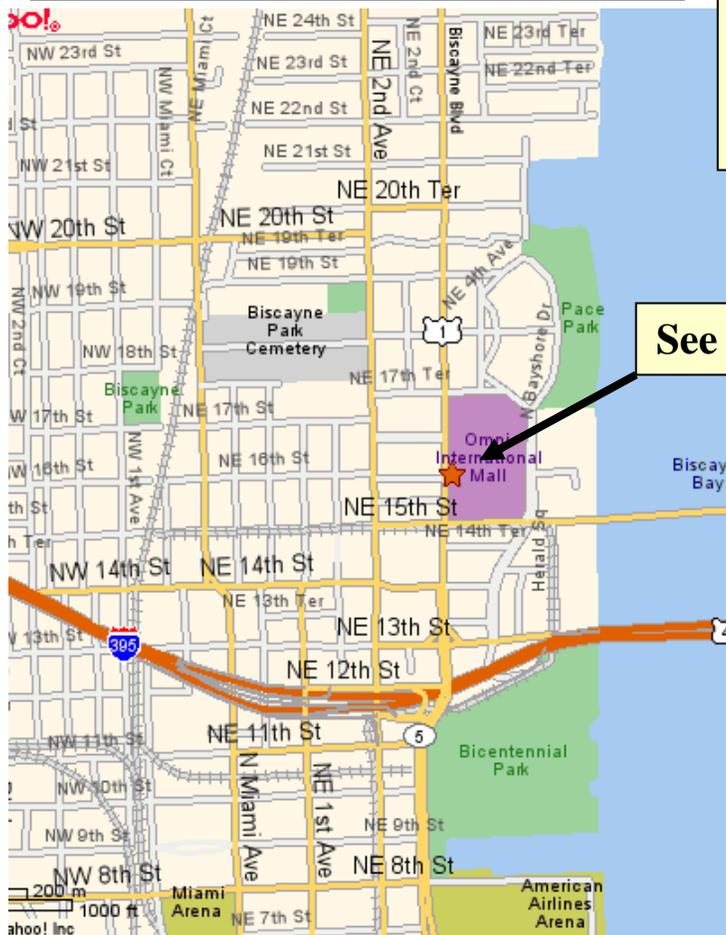
What professional news would you like to share? Please let us know about your job description, new degrees, promotions, research, teaching, awards, etc. We are also interested in news about your life away from work: your family life, organizations you belong to, hobbies, travel adventures, etc.

Please include current address and day and evening phone numbers.

**All correspondence should be addressed to:**  
**The Editor, Interface**

### Editor:

James S. Szocik, MD  
University of Michigan Health System  
1500 E. Medical Center Drive, UH1H247  
Ann Arbor, MI 48109-0048



## The Society

The Society for Technology in Anesthesia is an international organization of approximately 175 physicians, engineers, students and others with an interest in anesthesia-related technologies. Membership is open to all who are interested. The journal, *Anesthesia & Analgesia* is STA's official publication. An intermittent newsletter, Interface, is published and available on-line.