



# INTERFACE

SOCIETY FOR TECHNOLOGY IN ANESTHESIA

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July 2004



## STA Research 2004, New Mexico Awards

### Best Clinical Abstract:

**Increased tidal volume variability as a marker of opioid-induced respiratory depression in children**

• J Mark Ansermino, MBBCh, MMed, MSc, FFA(SA) †Sean J Barbour, BSc (Hon), \*Christine A Vandebek, BBA, MBA.  
Department of Anesthesiology, British Columbia's Children's Hospital and University of British Columbia.

### Best Technology Abstract:

**Automatic Identification of the "Start of Anesthesia Care" using Indoor Positioning System (IPS) Derived Spatial-Temporal Association**

• Julian M. Goldman, MD, James E. Stahl, MD, Warren S. Sandberg, PhD, MD, Pamela L. Fairbrother, Patricia L. Atkins, RN, Marie T. Egan, RN, Richard A. Wiklund, MD, David W. Rattner, MD  
Departments of Anesthesia & Critical Care, Medicine, Surgery, and Nursing, Massachusetts General Hospital, 55 Fruit St., Boston, MA, 02114

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

## STA Research 2004 Awards (cont)

### Honorable Mention:

**A novel method for measuring total coronary blood flow, and myocardial oxygen consumption.**

- Zhu QB MD, Watkins-Pitchford JM FRCA.  
Department of Anesthesiology, Yale University  
School of Medicine.

### Grant Award \$10K:

**Computer Controlled Carbon Dioxide Injection for Maintaining Endtidal CO<sub>2</sub> Values for Faster Wakeup from Volatile Anesthetics**

- Derek J. Sakata, MD, Department of Anesthesiology  
University of Utah

**\*\*\*Scientific abstracts from the 2004 STA Annual Meeting and International Meeting on Medical Simulation have been posted on the STA web site.**

<http://www.anestech.org/Publications-Abstracts.php>

## Gravenstein Lecture 2004

Peter J. Schreiber was introduced with a heartfelt "How do you do?" by Nick Gravenstein, who related his 1<sup>st</sup> encounter with Schreiber at an Anesthesia Patient Safety Foundation committee meeting. Dr. Gravenstein described a true Horatio Alger story, as Schreiber survived Soviet camps (where he made sewing machine needles from wheels) to his founding of North American Drager. The overriding theme of the presentation was of safety and saving lives.

Schreiber related a meeting of the German Club of New York, presided over by Henry Kissenger, a white-tie and tails affair, where all the men



*Nick Gravenstein himself introduced the recipient of the Gravenstein award on Saturday, January 10, 2004*



*Peter J. Schreiber delivered the Gravenstein lecture in Alq, NM on Saturday.*

wore their medals won during the wars (mostly for the taking of lives) and his wife remarked that he had none. Medals aren't given for the saving of lives. Peter was deeply honored to receive the award, as it was the first one he had received. (being 1<sup>st</sup>

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### 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.

## Gravenstein Lecture 2004 (cont.)

runner up as Pennsylvania entraneur of the year 15 years ago).

He spoke of taking his grandchildren to the village where he grew up in Germany. The only heated room in his house was the kitchen and it came complete with community well and outhouse. Those who grew up with cell phones, central heating, indoor plumbing, laptop computers, and internet access cannot comprehend this type of existence. In 1956 when he started working for Drager the situation in anesthesia was similar. There were no real "vaporizers" in the sense we use today. There were Boyle's bottles and copper kettles, without any safety or control devices. Ether and cyclopropane were in common use, halothane had just been invented.

He found one book, Mushin et al's Physics for the Anesthetist, which was strong in physics, but weak in engineering. So he wrote a book, classifying anesthesia equipment, determining requirements for vaporizers, learning about the difference between partial pressure (which is what actually provides the anesthesia) and volume %, explaining different absorber systems for CO<sub>2</sub>, and ventilators. He tested vaporizer designs, noting seven-fold variations in delivery across barometric pressure ranges and wide swings with different fresh gas flows. This culminated in a 228 page book (in German), that was basically a "how-to" engineering manual for anesthesia equipment.

Leaving Germany in 1966, he eventually founded North American Drager. He had an open house policy, where engineers from other companies could call for advice. Schreiber took out ads in

Anesthesiology to emphasize safety issues.

At one point in his lecture, he spoke of a closed loop control system model for anesthesia care, involving the machine, monitors, and the anesthesiologist. He went on to explain his classification of errors as 'slips and mistakes' and how to design equipment to prevent, ameliorate, or warn of error conditions.

In conclusion, North American Drager was ahead of the curve at establishing a "Culture of Safety" which is so commonly referred to in today's medicine.

## Business Report

### Elections

President Elect:	Charlotte Bell
Member at Large:	Sem Lampotang
Industry rep:	Mike Petterson
Attendance:	297
IMMS	191
- non-physicians	63
STA	92

## Board of Directors

<b>President</b>	Jeff Feldman <a href="mailto:feldmanj@comcast.net">feldmanj@comcast.net</a>
<b>Secretary</b>	Bosseau Murray <a href="mailto:wbmurray@psu.edu">wbmurray@psu.edu</a>
<b>Treasurer</b>	Julian Goldman <a href="mailto:Mail@AcmeAnesthesia.com">Mail@AcmeAnesthesia.com</a>
<b>Executive Director</b>	Beverlee Anderson <a href="mailto:STA@AnesTech.org">STA@AnesTech.org</a>
<b>Immediate Past President</b>	Robert "Butch" Loeb <a href="mailto:RLoeb@U.Arizona.edu">RLoeb@U.Arizona.edu</a>
<b>Member at large</b>	David Feinstein <a href="mailto:DFeinste@Caregroup.Harvard.edu">DFeinste@Caregroup.Harvard.edu</a>
<b>Member at large</b>	Keith Ruskin <a href="mailto:Ruskin@GASnet.Med.Yale.edu">Ruskin@GASnet.Med.Yale.edu</a>
<b>Member at large</b>	Robert Tham <a href="mailto:ArgentieriM@NAD.com">ArgentieriM@NAD.com</a>
<b>A &amp; A Section Editor</b>	Steve Barker <a href="mailto:SJBarker@U.Arizona.edu">SJBarker@U.Arizona.edu</a>

## President's Message

This year continues to be a successful year for STA. The annual meeting was successful; the programs were well received and the budget has stayed healthy. Since the annual meeting, the STA Board of Directors has held two teleconferences and several STA members have been busy planning future events.

As you may know, our current Executive Director, Beverlee Anderson, has decided to retire from society management following our next annual meeting. As a result, one of the most important items facing the society this year is selecting a new management group. Dan Raemer has circulated an RFP and six proposals have been submitted from management groups. We are now in the process of examining the proposals and narrowing the choices to the groups that are most likely to meet our needs. More information will follow as the details unfold.

The events for the upcoming year are also coming together. Butch Loeb has planned the breakfast panel for the ASA meeting which will focus on the use of PDA's in clinical practice. Peter Fine has found an expert on the Hoover Dam to speak at the ASA dinner meeting. George Blike is busy planning there annual meeting which will be held in Miami, January 13<sup>th</sup> – 15<sup>th</sup>, 2005. The theme entitled "Hot Tech in Anesthesiology" will focus in examining new technologies in depth with an emphasis on making decisions on how to integrate these technologies into clinical practice. The usual content of research discussions and focus sessions is also planned. Not only is Miami a great place to spend a few days in January, the meeting schedule is being carefully planned to balance the educational content with opportunities to enjoy the area. Golfing and sailing expeditions are in the planning stages with more to come.

Another focus this year has been membership. Advertisements that appear in Anesthesia and Analgesia have been redesigned to broaden the message to prospective members. I have also sent personal letters to those members who did not renew this year and am told that we are reviewing some renewals in response. Peter

Lichtenthal is working on plans to improve out marketing at the ASA. Remember, the best way to increase our membership is for each member to recruit one more person to join the society.

- Jeff Feldman

## STA Annual Meeting 2005

### Making Capital Equipment Decisions

January 13 – 15, 2005

Course Director: George Blike, MD

Scientific Chair: Kirk Shelley, MD

Hotel: Radisson Miami Downtown

For more information, visit the Hotel website at:

[www.radisson-miami.com](http://www.radisson-miami.com)

### Simulation Meeting

January 14 – 16, 2005

Chair: Stephan Moenk, MD

Scientific Chair: Michael DeVita, MD

Workshop Chair: Richard Riley, MD

## LET US HEAR FROM YOU!

The Editor, Interface  
OR

Send Email to:

[Jsocik@med.umich.edu](mailto:Jsocik@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:**

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## **2004 STA ASA Breakfast Panel**

### **“PDA’s for Point-of-Care Information in the Operating Room”**

Wednesday, October 27, 2004

7:30 am – 8:45am

Las Vegas Hilton

- **Introduction**

**Jeffrey M. Feldman, MD, MSE**

President, Society for Technology in  
Anesthesia

Associate Professor of Clinical Anesthesia

University of Pennsylvania

Children’s Hospital of Philadelphia

34<sup>th</sup> and Civic Center Boulevard

Philadelphia, PA 19104

215-842-6795

[feldmanj@comcast.net](mailto:feldmanj@comcast.net)

- **Presentation of Research Awards**

**Kirk Shelley, MD, PhD**

Associate Professor, Department of  
Anesthesiology

Yale University School of Medicine

333 Cedar Street, TMP 3

PO Box 208051

New Haven, CT 06520-8051

[kirk.shelley@yale.edu](mailto:kirk.shelley@yale.edu)

- **PDA Databases for Patient Tracking & Billing**

**Hugh Allen, MD**

Director, Pain Management Fellowship  
Program

Virginia Mason Medical Center

PO Box 900, Mailstop B2-AN

Seattle, WA 98111

206-223-6980

[hugh.allen@vmmc.org](mailto:hugh.allen@vmmc.org)

- **Knowledge Resources 1 – Prewritten Software**

**Keith Ruskin, MD**

Associate Professor of Anesthesiology and  
Neurosurgery

Yale University School of Medicine

333 Cedar Street, TMP 3

PO Box 208051

New Haven, CT 06520-8051

203-785-2802

[ruskin@gasnet.org](mailto:ruskin@gasnet.org)

- **Knowledge Resources 2 – Accessing Local Information**

**Ravindra Prasad, MD**

Assistant Professor, Department of  
Anesthesiology

University of North Carolina School of  
Medicine

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Chapel Hill, NC 27599-7010

919-966-5136

[rprasad@aims.unc.edu](mailto:rprasad@aims.unc.edu)

## **- - - News & Announcements - - -**

### **Virtual Anesthesia Machine (VAM) Users:**

Version 1.0 of the free APSF workbook (50 pages) is now available in French in addition to Chinese, Farsi, German, Italian and Korean.

VAM web site: <http://vam.anest.ufl.edu>

- Sam Lampotang

University of Florida Department of Anesthesiology