Chairman’s Corner
Berend Mets, MB, ChB, PhD, FRCA, FFA(SA)
Eric A. Walker Professor and Chair of Anesthesiology

It is a great privilege as Chairman of the department to inaugurate this first issue of the “Penn State Anesthesiology News.”

I wish to inaugurate this with the wish that this regular publication will become a forum for colleagues, Alumni, and Friends of the Department to be well informed about developments. In addition, I would like to thank Dr. Sonia Vaida for taking on the role as the “Penn State Anesthesiology News” Editor with her usual energy and style.

We have established as our Vision for the Department to be a Model Academic Department of Anesthesiology which serves as a Model for Academic Anesthesia Worldwide.

On the way to achieving this Vision as a Department, we have a great deal to be thankful for and a great deal to look forward to.

Thankful For...

Over the past 6 years with respect to clinical care, education and research/scholarship, we have achieved a great deal. With respect to our Clinical Care Mission, from providing approximately 18,000 anesthesies a year we provided just short of 32,000 anesthesies in the year ending June 30, 2008. This is the result of 4 new operating rooms in the main suite, 5 OR’s at HOSCC and a dramatic increase in offsite anesthetic care where we regularly run 5 sites (or more) a day. A further 21,000 patients were seen by our Faculty and Residents in Chronic Pain (8,500), Acute Pain (2,500), ICU (2,000) and the Anesthesia Preoperative Clinic (8,000) last year (2007). This large number of yearly patient interactions (~50,000) has been the result of steady growth in a thriving medical center and a substantial increase from 23 Faculty FTE to 38 FTE and 37 Residents to 59 over the last 5 year period. We have been blessed with dedicated CRNAs who help our clinical care and education missions and have expanded fellowship programs. We began with two pain fellowship positions and now have a total of 7 fellow positions; in Pain Medicine (3), Pediatric Anesthesia (2), and Cardiac Anesthesia (2) respectively.

With respect to our Education Mission, we were very pleased with our recent Match where 14 new residents matched into our program as well as the news that 10 Penn State Medical Students chose to pursue an Anesthesiology specialty. The excellence of our residency program is attested to by the recent (2006) ACGME review.

Please Welcome New Residents for 2008-2009
Stephen J. Kimatian, MD
Anesthesiology Residency Program Director

Our alumni numbers increased this July with the graduation of 14 residents, 1 Peds Fellow, 1 Cardiac Fellow and 3 Pain Fellows, bringing the total Penn State trained anesthesiologists to 270.

This July, we welcomed 12 new Clinical Base residents, 6 new CA1’s, 2 Pediatric Fellows, 2 Cardiac Fellows, and 3 Pain Fellows. Despite the growth of the program, we have no shortage of clinical experience with over 30,451 surgical cases last year – a 20% increase! Associate Program Director, Dr. Jill Eckert (Chief Resident 2004, Pain Fellow 2005), and Residency Coordinator, Mrs. Jodi Verbos, have done outstanding jobs this year coordinating our recruitment program. September 1st is the first official day of the recruitment season for 2009 and we are looking forward to yet another outstanding batch of applicants.

In 2006, the residency program had a site visit from the ACGME Residency Review Committee in Anesthesiology. I am happy to report that we came through our review with flying colors, receiving a full 5-year accreditation with zero citations and a note of commendation for our “substantial compliance with ACGME’s requirements for graduate medical education.” An evaluation of this caliber can only be attained by a department of the highest quality and commitment and I want to take this opportunity to thank all of the faculty, residents, and administrative staff that helped to make it possible. As the department continues to expand...
Message from the Chairman

(Continued from page 1)

where we received a 5-year accreditation cycle (the longest possible) and no citations.

With respect to the Research and Scholarship Mission in education, research and simulation, our academic output steadily increased with 25 peer-reviewed publications in 2003 to 42 in 2007. We have substantial outside research funding with 3 pending NIH and a number of Industry funding applications.

Look Forward To...

We have a great deal to look forward to in the coming years as we continue to grow our residency in tandem with increasing patient volume from the envisioned 6 OR expansion in the next two years as well as the anticipated move of the Simulation Lab to a New Learning Complex on the second floor of the Library.

In addition, we recently completed a redesign/expansion of the Julien F. Biebuyck Faculty and Alumni Library; The Library is now equipped with updated audio visual equipment and increased seating capacity.

However, little can be effectively achieved without the spirit of collegiality and drive for excellence that we collectively bring to the department. For this, I thank each of our departmental members who contribute with their heart and soul to our missions. The articles that you find in the following pages of this publication are a worthy testament to our collective endeavor.

Please Welcome Our **NEW RESIDENTS** for 2008-2009

(Continued from page 1)

its commitment to excellence in academics, we welcome the addition of three Assistant Program Directors: Dr. Budde will have oversight of the CA1 curriculum, Dr. Saliba the CA2 curriculum, and Dr. Sedeek the CA3 curriculum. In addition, Dr. Pott will serve as the Director of Medical Student Education which expands the education division to six full-time faculty and allows us to continue to build on an already excellent education program.

Incoming Residents/Fellows 2008-2009

12 Clinical Base Residents
6 CA1 Residents
2 Pediatric Anesthesia Fellows
2 Cardiac Anesthesia Fellows
3 Pain Medicine Fellows

Jeremiah Blankenship, DO
PGY-1
Jill Cheeseman, DO
PGY-1
Gerald Daneshvar, MD
PGY-1
Michael Glinianski, MD
PGY-1
Ashley Greene, DO
PGY-1
Ruhong Ma, DO
PGY-1
Paul Menocci, DO
PGY-1
Charvi Patel, MD, PhD
PGY-1
Saravanan Ramamoorthy, MD
PGY-1
Debra Seidenberg, MD
PGY-1
Edward Shen, MD
PGY-1
Filip Trojanowski, MD
PGY-1
Wiebke Ackermann, MD
PGY-2
Luke Douthitt, MD
PGY-2
Matthew Keller, DO
PGY-2
Manish Khetani, MBBS
PGY-2
Gundappu Reddy, MBBS
PGY-2
Michael Tuttle, DO
PGY-2

“A teacher affects eternity; he can never tell where his influence stops.”

—Henry Brooks Adams
Division Highlight: Pediatric Anesthesia

Pediatric Anesthesiology at Penn State Children’s Hospital is a group of anesthesiologists “dedicated to the health of all children” in the operating room. Pediatric anesthesiologists are the guardian angels for those children undergoing minor and major surgical procedures in the Penn State Children’s Hospital operating rooms. At Penn State Children’s Hospital, the pediatric anesthesia team anesthetizes over 1400 general pediatric surgical patients per year. This number only includes general pediatric surgical patients, and not the pediatric surgical subspecialties (such as pediatric heart cases). The Penn State pediatric anesthesiologists ensure that children receive the very best care and analgesia for their operative procedure.

Our Leaders
Patrick M. McQuillan, MD, Professor of Anesthesiology and Pediatrics, has directed the pediatric anesthesia at Penn State Children’s hospital for over 10 years. Dr. McQuillan is a distinguished Board Examiner for the American Board of Anesthesiology, and is the author and editor of respected books in the field of anesthesia and regional anesthesia. Dr. McQuillan serves as the Director of Acute Pain Management Service and is the Vice Chair of Clinical Affairs for the Department. Dr. McQuillan also spends a good portion of his time in the pediatric heart room with children requiring advanced practice pediatric anesthesia for repair of their congenital heart defect.

Stephen J. Kinatian, MD, Associate Professor of Anesthesiology and Pediatrics, became the new Pediatric Division Director as of July 1, 2008. Dr. Kinatian has a distinguished career in anesthesiology and anesthesia education. As the Director of the Anesthesia Residency Program for Penn State Milton S. Hershey Medical Center, he currently coordinates the training of 59 residents. In addition, Dr. Kinatian has research interests in education and cerebral oximetry monitoring in the pediatric heart rooms.

Our Team
Carolyn Barbieri, MD
Pediatric Anesthesia Fellow

Priti Dalal, MB, BS, DA, MD, FRCA
Visiting International Assistant Professor of Anesthesiology
Director, Pediatric ASA & MRI

Padmani Dhar, MB, BS
Assistant Professor of Anesthesiology

Kathleen S. Donahue, DO
Associate Professor of Anesthesiology and Pediatrics
Medical Director Operating Room Services
Associate Vice Chair of Operating Room Management

Stephen J. Kinatian, MD
Associate Professor of Anesthesiology and Pediatrics
Associate Vice Chair for Resident Education
Anesthesiology Residency Program Director
Director of Pediatric Anesthesia Division

Mia Mathewson, MD
Pediatric Anesthesia Fellow

Patrick M. McQuillan, MD
Professor of Anesthesiology and Pediatrics
Vice Chair for Clinical Affairs
Division Director for Acute Pain & Orthopedics

Uma R. Parekh, MB, BS
Assistant Professor of Anesthesiology

Milena Pilipovic, MD
Assistant Professor of Anesthesiology

Niraja Rajan, MB, BS
Assistant Professor of Anesthesiology
Medical Director, Hershey Outpatient Surgery Center

Sarah E. Rebstock, MD
Assistant Professor of Anesthesiology

Joan M. Ruffle, MD
Associate Professor of Anesthesiology

Kenneth J. Saliba, DO
Assistant Professor of Anesthesiology and Pediatrics
Assistant Director, Residency Program for CA2

Khaled Sedeek, MD
Assistant Professor of Anesthesiology
Assistant Director, Residency Program for CA 3

Ms. Janet Zeager
Staff Assistant VI

This team of pediatric anesthesiologists is pursuing a number of research interests with publications in respected peer reviewed journals. Every member of the pediatric anesthesia group at Penn State Children’s Hospital is dedicated to educating residents, providing safe anesthetics and adequate analgesia for children, as well as pursuing rigorous academic careers. With a team like this, we can easily say that we are “proud to be Penn State.”

Please Welcome Our NEW FELLOWS for 2008-2009

Carolyn Barbieri, MD
Pediatric Fellow

Mia Mathewson, MD
Pediatric Fellow

Shabeera Husain, MD
Pain Medicine Fellow

Benjamin Sampang, MD
Cardiothoracic Fellow & Instructor

Dale Santrock, MD, MS
Cardiothoracic Fellow & Instructor

Janak Vidyarthi, MD
Pain Medicine Fellow

Saloni Sharma, MD
Pain Medicine Fellow

“The new hospital will further enhance the ability of Penn State Children’s Hospital to serve the needs of children as the only dedicated hospital for kids in Central Pennsylvania.”

“With a team like this, we can easily say that we are ‘proud to be Penn State.’”

Patient Care Focused
Simulation Development and Cognitive Science Laboratory

Started as a joint project between Anesthesia, Nursing, and Surgery, the Simulation Development and Cognitive Science Laboratory became an institutional resource in July 2006. At that time, the management of the Sim Lab transferred to the Office of Education Affairs with support from the Medical Center and the Medical School.

The Penn State Hershey Medical Center Simulation Development and Cognitive Science Laboratory has been granted full accreditation by the American College of Surgeons as a Level 1 Comprehensive Education Institute. This 3-year accreditation from June 2007 through 2010 is the highest level possible.

The lab is dedicated to advancing the state of the art in medical simulation. To this end, we incorporate the latest equipment and methodologies into our curricula as well as develop, test, and validate new educational tools. The lab is open for self-learning anytime for medical and nursing students, residents, and faculty from any department.

Plans are now underway to build a larger, up-to-date facility on the second floor of the George T. Harrell Library, putting the new Simulation Laboratory in the academic heart of Penn State Hershey. Residents in the Department of Anesthesiology have simulation-based teaching sessions at least once per month during the year, and several residents have done research projects in the lab.

Dr. Liza Sinz is the Clinical Director of the Sim Lab and has served on the initial Simulation Workgroup and now on the Simulation Committee of the ASA. She was also a founding member of the Society for Simulation in Healthcare (SSH) and served as President in 2007. SSH has its roots as an anesthesiologist group originally coordinated with other meetings such as the Society for Education in Anesthesia and the Society for Technology in Anesthesia. In 2004, SSH became an independent, multispecialty, multidisciplinary, international society dedicated to advancing simulation-based education and research in healthcare. Now with over 2,000 members, SSH has evolved into the most important voice for healthcare simulation. Their website can be found at: www.SSiH.org

In Memoriam

Sadly our colleague and friend, Dr Mikhail Sukernik passed away in July 2008. He was 48 years old.

Mikhail was born on August 21, 1959 in a Siberian city called Rubtsovsk and spent most of his early life in Novosibirsk, where he attended medical school and started the practice of medicine. However, he always strived to become a more educated and better doctor. He thus pursued a residency and fellowship in cardiology in Moscow, in the country’s biggest cardiology institute. After this he went back to Novosibirsk to share the knowledge he received in Moscow in order to advance his field and improve the standard of care for patients. He did so by practicing his chosen field, eventually as an Associate Professor of Internal Medicine and Cardiology in Novosibirsk. Mikhail was always a highly motivated person and strived to improve his abilities and knowledge. Eventually, he realized he wanted more than he could achieve in Russia at that time and took his first steps in emigrating to America.

He initially secured a job at the Harlem Hospital in NY in 1993. Then, fortunately for us, he chose to specialize in anesthesia and did so at Cornell in New York. He went on to complete his Cardiac Anesthesia Fellowship at Columbia in NY and served there as Director of Perioperative Echocardiography for 4 years. Mikhail joined our department as an Associate Professor of Anesthesiology in June, 2004. Mikhail became a consummate academic cardiac anesthesiologist with a deep love for and expertise in echocardiography, the subject of his PhD dissertation, as early as 1990.

Dr Sukernik served as the director of our very successful Cardiac Anesthesia Fellowship Program and published and lectured widely on Perioperative Echocardiography.

Mikhail loved to read, travel, scuba dive and was a licensed pilot. He had a great sense of humor. He was a published poet, and won awards in Russia, and was even quoted in Russian newspapers.

He would be the first to lend a helping hand to any friends or family in need. He would even help people he had only briefly met.

Mikhail was the kind of person who excelled at doing what he believed in.

And so we say farewell to and salute our colleague and friend, he will be sorely missed.

Berend Mets
Recent Publications


Yarotsky V, Emslie KS. Roscovitine, a cyclin- dependent kinase inhibitor, affects several gating mechanisms to inhibit cardiac L-type (Ca(V)1.2) calcium channels. Br J Pharmacol. 2007;152(3):386-95


Adult cardiac anesthesia at the Hershey Medical Center / Penn State University is performed by a group of highly trained anesthesiologists. The group has an extensive knowledge of the physiology of cardiopulmonary bypass, management of patients with cardiac and vascular diseases as well as their coagulation, and application of transesophageal echocardiography to monitor a patient’s cardiovascular status to optimize their anesthetic management. We come from diverse training backgrounds to meld into an extremely strong cardiac anesthesia group.

**Our Team**

- **Jens Fassl, MD**  
  Visiting International Assistant Professor
- **David M. Fehr, MD**  
  Associate Professor of Anesthesiology
- **Kane M. High, MD, MS**  
  Associate Professor of Anesthesiology  
  Director, Cardiac Anesthesia Division
- **Michael Ingerski, MD**  
  Assistant Professor of Anesthesiology
- **Ramesh Kodavatiganti, MD**  
  Associate Professor of Anesthesiology  
  Director, Practice Management and Compliance

We have strived for academic excellence by establishing a line of extremely well trained cardiac fellows who have been very successful in achieving TEE certification and well rounded as cardiac anesthesiologists. We published 11 articles and book chapters from within the group last year.

**The Joseph Priestley Resident Research Scholarship in Anesthesia**

While Chair of Anesthesiology in 1995, Dr. Julien Biebuyck inaugurated the Joseph Priestley Lecture series which had as its goal to invite leaders in the field of Anesthesiology to the Department to provide a lecture and interact with Faculty and Residents. Over the intervening years, we have had the following lecturers visit our Department to this end:

- **1995**  
  Paul Barash, MD  
  Yale University
- **1996**  
  John Severinghaus, MD, FRCA  
  University of California
- **1997**  
  Edward Lowenstein, MD  
  Harvard University
- **1998**  
  Christopher W. Bryan-Brown, BM, B. Ch., FRCA  
  Albert Einstein College of Medicine
- **1999**  
  Peter Bennett, Ph. D, D.Sc.  
  Duke University
- **2000**  
  David R. Bevan, MB, MRCP, FRCA  
  University of Toronto
- **2001**  
  Donald S. Prough, MD  
  University of Texas, Galveston
- **2002**  
  Burton S. Epstein, M.D.  
  George Washington University School of Medicine
- **2003**  
  Margaret Wood, MB, ChB (FRCA)  
  College of Physicians and Surgeons of Columbia University
- **2004**  
  Edward Miller, M.D.  
  Johns Hopkins University School of Medicine
- **2005**  
  JoAnne Conroy, M.D.  
  Morristown Memorial Hospital
- **2006**  
  Mark Warner, M.D.  
  Mayo School of Graduate Education
- **2007**  
  Debra Schwinn, M.D.  
  University of Washington
- **2008**  
  David M. Gaba, M.D.  
  Stanford University Medical Center

This year, we are pleased to announce that Dr. David Gaba, Professor of Anesthesiology & Associate Dean for Immersive and Simulation-based Learning at Stanford University Medical Center will be the 14th Joseph Priestley Lecturer. Not only will he provide a lecture, he will also serve as an Instructor for Simulation Instructor Course scheduled at the time of the Lectureship. In order to ensure that the Joseph Priestley Lectureship will continue on a yearly basis, the Department recently established the Joseph Priestley Lectureship in Anesthesiology Endowment Fund with an initial endowment of $500,000.

In order that we might develop the Academic Anesthesiologists of the future in the Department, this year we have inaugurated the Joseph Priestley Resident Research Scholarship in Anesthesia. The goal of this Scholarship is to attract excellent candidates into our Residency Program who desire to become researchers and academic anesthesiologists. The Scholarship will help support these anesthesia scholars during the formative years of their training. Each Scholar will receive $10,000 per annum for the entire period of their Residency Training (PGY1-PGY4), in addition to their normal PGY Salary. Priestley scholars will work with a faculty mentor to develop their research direction and will be eligible to apply for departmental funding support for their research projects. Scholars will commit to remain with the Department of Anesthesiology for a period of two years following the scholar’s satisfactory completion of the clinical anesthesia residency. We are very pleased to announce that following the successful completion of her first six months of Anesthesia Training, Dr. Charvi Patel will be our first Joseph Priestley Scholar.
# Awards / Promotions / Research / Recognition

## Faculty Arrivals and Promotions

<table>
<thead>
<tr>
<th>Arrivals</th>
<th>Promotions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burns, David Assistant Professor (7/1/2007)</td>
<td>Sinz, Elizabeth Professor (7/1/2007)</td>
</tr>
<tr>
<td>Fassl, Jens Visiting International Assistant Professor (5/1/2008)</td>
<td>Pott, Leonard Associate Professor (7/1/2008)</td>
</tr>
<tr>
<td>Ingerski, Michael Assistant Professor (7/14/2008)</td>
<td></td>
</tr>
<tr>
<td>Kodavatiganti, Ramesh Associate Professor (10/1/2007)</td>
<td></td>
</tr>
<tr>
<td>Luat-Inciong, Joy Visiting International Assistant Professor (8/1/2008)</td>
<td></td>
</tr>
</tbody>
</table>

## Current Research

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Project Title &amp; Sponsor</th>
<th>Total Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elmslie, K</td>
<td>Structural Determinants of Closed-state Inactivation of N-type Calcium Channels. PA Tobacco Settlement Fund (TSF)</td>
<td>$43,950</td>
</tr>
<tr>
<td>Janicki, P</td>
<td>A Randomized, Double-blind, Double-dummy, Dose-ranging, Active and Placebo Controlled Study of Single-dose Oral Rolapitant Monotherapy for the Prevention of Postoperative Nausea and Vomiting (PNOV); Schering-Plough Corporation</td>
<td>$111,920</td>
</tr>
<tr>
<td>Murray, W.B.</td>
<td>Assessment of Learning with the Mobile Intubating Video Laryngoscope (MTILV) in Endotracheal Intubation; University of Nebraska</td>
<td>$33,986</td>
</tr>
<tr>
<td>Murray, W.B.</td>
<td>COTS HEMI Devices Characterization; US Marine Corps Contract</td>
<td>$74,663</td>
</tr>
<tr>
<td>Murray, W.B.</td>
<td>Developing Trial Systems and Initial Evaluation Tools: Phase I Extension for TATRC; US Marine Corps Contract</td>
<td>$49,992</td>
</tr>
<tr>
<td>Ruiz-Velasco, V.</td>
<td>Coupling Mechanisms of NOP Receptors and Calcium Channels; PA Tobacco Settlement Fund (TSF)</td>
<td>$76,598</td>
</tr>
<tr>
<td>Ruiz-Velasco, V.</td>
<td>Functional Assessment of Muscarinic Receptor Agonist on Rat Stellate Ganglion Neurons; Glaxo SmithKline</td>
<td>$30,490</td>
</tr>
<tr>
<td>Ruiz-Velasco, V.</td>
<td>Signaling Mechanisms of the OP4 Receptor in Sympathetic Neurons; PHS R01</td>
<td>$255,819</td>
</tr>
<tr>
<td>Trojanowski, A.</td>
<td>Recognition of Unanticipated Hemodynamic Events Comparing Cuff Monitoring and the TenSys T-line; Tensys Medical, Inc.</td>
<td>$28,000</td>
</tr>
<tr>
<td>Yarotskyy, V.</td>
<td>L-Type Calcium Channel Gating: Control of Voltage-dependent Inactivation; American Heart Association, PA</td>
<td>$43,000</td>
</tr>
</tbody>
</table>

## Awards/Recognition for 2007-2008

<table>
<thead>
<tr>
<th>Member</th>
<th>Award/Recognition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burns, David</td>
<td>Garfield B. Russell, MD Career Development Professorship in Medical Education</td>
</tr>
<tr>
<td>Murray, W. Bosseau</td>
<td>Julien F. Biebuyck, MD Endowed Professorship in Anesthesiology</td>
</tr>
<tr>
<td>Rao, Srikantha</td>
<td>Faculty Career Development Professorship in Anesthesiology</td>
</tr>
<tr>
<td>Sinz, Elizabeth</td>
<td>Outstanding Service Award for Faculty</td>
</tr>
<tr>
<td>Vaida, Sonia</td>
<td>Donald E. Martin, MD Career Development Professorship in Anesthesia and Pain Medicine</td>
</tr>
<tr>
<td>Latchford, Janine</td>
<td>Outstanding Service Award for Non-Faculty</td>
</tr>
<tr>
<td>Swierczynski, Jennifer</td>
<td>Outstanding Service Award for Non-Faculty</td>
</tr>
</tbody>
</table>
Thank you for all of the valuable contributions to the first edition of the Anesthesiology News. I invite you to consider an original entry for an upcoming edition. Please forward any information to me via email.

Sonia Vaida
svaida@hmc.psu.edu