President’s Message 2010

An Incredible Year For WINS…But Much Left To Do

2009 was a spectacular year for Women in Neurosurgery (WINS). This year marked the arrival of the 20th anniversary of WINS, commemorated by our 20th Anniversary Gala at the Annual AANS Meeting in San Diego. Geraldine Brooks, the 2009 Louise Eisenhardt lecturer, addressed the Gala audience, spoke of her career in journalism and as an author, and fielded questions from the audience.

Ms. Brooks provided insight into her struggles as a woman in a traditionally male-dominated field, reflecting on her experiences as a foreign correspondent for the Wall Street Journal. She also described her personal journey from foreign correspondent to author—a transition that ultimately led to the publication of her novel, March (Penguin, 2006), for which she won the Pulitzer Prize. Honored guests at the Gala included Honorary Chair Mrs. Debbie Bean, President of the AANS Dr. James Bean and many of the Executive Board Members of the AANS, CNS, CSNS, ABNS, and the SNS.

Corporate sponsorship of the educational activities included in the 20th Anniversary Gala was unprecedented and overall attendance at the breakfast was outstanding.

Another notable WINS accomplishment for 2009 included the publication of Heart of a Lion, Hands of a Woman (Donning Company, 2009)—an inspiring collection of essays and artwork edited by Drs. Deborah Benzil and Karin Muraszko. This collection was undertaken as a celebration of the 20th anniversary of WINS and represents the memoirs, reflections, and personal expression of women who have shared similar struggles in their pursuit of our profession. Over 200 copies have already been sold.

2009 also saw the hosting of two events: the WINS Northeastern Regional Meeting in New York City and the First Annual Women In Spine Symposium (WISE), sponsored by Stryker. WISE, a two-day event, took place in December in Las Vegas, NV, at the ScienceCare Center. The meeting was Co-Chaired by Drs. Lauren Schwartz and Michele Johnson. Participants included female neurosurgeons, residents, physician’s assistants, and operating room nurses.

continued on page 2
**Pseudotumor Cerebri after Surgical Remission of Cushing’s Disease**

This paper and award will be presented at the 2010 AANS Annual Meeting in Philadelphia, PA during the AANS Section on Pediatrics on Wednesday, May 5, 2010, 4:01—4:08 PM.

**An Incredible Year For WINS…But Much Left To Do**

The keynote speaker for the first evening was Dr. Debra Petrucci, MD, a successful spine neurosurgeon in private practice in New York and the first female graduate of the Massachusetts General Hospital neurosurgery residency training program. Dr. Petrucci discussed the key elements of establishing a practice in spinal surgery. The second day of the WISE Symposium included case presentations and a panel discussion of these cases by experts in the field. A cadaver lab course with stations for each major spinal instrumentation procedure was also included in this symposium.

In spite of all the wonderful accomplishments in 2009, including the highlights and accomplishments showcased in this WINS 2010 Newsletter, the statistics remain somewhat grim: Women now account for 49% of medical school graduates in the U.S., but we represent only 12% of all neurosurgery residents (Figure 1)—less than the percentage of women in general surgery, otolaryngology, thoracic surgery, and orthopedics. Additionally, women represent only 5% of ABNS-certified, practicing neurosurgeons.

*Figure 1. Percentage of Female Neurosurgery Residents in the U.S. By Year, Projected Through 2017:*

In reflecting back over the significant strides of 2009 and the twenty year legacy of WINS, there is much we can still accomplish.

Aviva Abosch, M.D., Ph.D., 2009-2010 WINS President
Join us for the Women in Neurosurgery Breakfast Reception at the AANS 2010 Annual Meeting

Wednesday, May 5, 2010
7:30 - 9:00 a.m.
Liberty Ballroom at the Philadelphia Marriott Downtown

Tickets are $100
Residents & Medical Students Free - registration required

Diversity and the Next 25 Years: Are We Moving Fast Enough?

Mary Sue Coleman, PhD, has led the University of Michigan since being appointed its 13th president in August 2002. As the current president, she has unveiled several major initiatives which will have an impact on future generations of students, the intellectual life of the campus, and society at large. Under her leadership, the University launched “The Michigan Difference,” a campaign to raise $2.5 billion for the future of the institution. At its conclusion in December 2008, the campaign finale stood at $3,200,733,103 – the highest ever by a public university.

Dr. Coleman earned her undergraduate degree in chemistry from Grinnell College and her doctorate in biochemistry from the University of North Carolina. She holds honorary doctorates from Grinnell College, Luther College, the University of Kentucky, Albion College, Dartmouth College, Shanghai Jiao Tong University, Northeastern University, the University of Toledo, and the University of Notre Dame.

As a biochemist, Dr. Coleman built a distinguished career through her research on the immune system and malignancies.

At the University of Michigan, she holds appointments of Professor of Biological Chemistry in the Medical School and Professor of Chemistry in the College of Literature, Science, and the Arts. President Coleman is regarded as a national spokesperson on the educational value of diverse perspectives in the classroom. Her extensive leadership positions in higher education include serving on the Association of American Universities Executive Committee, the Internet Board of Directors, the National Collegiate Athletic Association Board of Directors, and the Knight Commission on Intercollegiate Athletics.

2010 AANS
Louise Eisenhardt Lecture

President Mary Sue Coleman
9:45—10:04 a.m.
Wednesday, May 5, 2010
Pennsylvania Convention Center
Ballroom AB
001 Hands-On Peripheral Nerve of the Upper Extremities  
**Co-Directors:** Allan J. Belzberg, MD, Rajiv Midha, MD, MS, FRCS  
**Faculty:** John E. McGillicuddy, MD, Robert J. Spinner, MD, FACS, Christopher J. Winfree, MD, Lynda Jun-san Yang, MD, PhD, Eric L. Zager, MD

006 Decision Making and the Spine Patient for Nurses, APRNs and PAs  
**Co-Directors:** Dean Barone, PA-C, MPAS, Twyila Lay, NP, MS  
**Faculty:** Christopher J. Barry, MD, Steven Casha, MD, PhD, Joseph S. Cheng, MD, MS, Marc E. Eichler, MD, Emily D. Friedman, MD, Marianne E. Langlois, PA-C, Alfred T. Ogden, MD, Nancy Eleanor Villanueva, ANP-C

007 Deep Brain Stimulation: Update and New Directions  
**Co-Directors:** Robert G. Grossman, MD, Stephen B. Tatter, MD, PhD  
**Faculty:** Aviva Aboisch, MD, PhD, Ron L. Alterman, MD, Jeffrey E. Arle, MD, PhD, Roy A. E. Bakay, MD, Nicholas M. Boulis, MD, Patrick J. Connolly, MD, Brian H. Kopell, MD, Alon Y. Mogilner, MD, PhD, Michael Y. Oh, MD, Joshua M. Rosenow, MD, Ashwini D. Sharan, MD, Philip A. Starr, MD, PhD

008 Spinal Radiosurgery  
**Co-Directors:** Mark H. Bilsky, MD, Peter C. Gerszten, MD, MPH  
**Faculty:** Liliana Angelov, MD, FRCS, Steven D. Chang, MD, Jason P. Sheehan, MD, PhD, Kevin C. Yao, MD

010 Brain Mapping Techniques in Adult and Pediatric Neoplasms and Epilepsy  
**Co-Directors:** Gerald A. Grant, MD, Guy M. McKhann II, MD  
**Faculty:** Nicholas M. Barbaro, MD, Gene H. Barnett, MD, FACS, Mitchel S. Berger, MD, FACS, William E. Bingaman Jr, MD, Peter M. Black, MD, PhD, Isabelle M. Germano, MD, FACS

011 Choosing and Developing a Neurosurgical Practice  
**Co-Directors:** Edward Robert Smith, MD, G. Edward Yates, MD, PhD  
**Faculty:** H. Hunt Batjer, MD, FACS, Lawrence S. Chin, MD, FACS, William T. Couldwell, MD, PhD, Joseph A. Hlavin, PA-C, J. Noziro Maraire, MD, Gregory J. Zipfel, MD

013 Peripheral Nerve Injuries, Entrapments and Tumors: Examination and Evaluation  
**Co-Directors:** Line Jacques, MD, Robert J. Spinner, MD, FACS  
**Faculty:** Allan H. Friedman, MD, FACS, Holly S. Gilmer, MD, Allen H. Paniker, MD, John E. McGillicuddy, MD

018 Coding, Compliance and Revenue Issues in Spine Coding  
**Director:** Joseph S. Cheng, MD, MS  
**Faculty:** Mina Foroohar, MD, FACS, R. Patrick Jacob, MD, FACS, Robert R. Johnson II, MD, FACS, John G. Piper, MD, Kim Pollock, RN, MBA, John Kevin Ratliff, MD, FACS, John A. Wilson, MD, FACS

020 Head and Spine Trauma: Current Treatments and Controversies with Hands-On Practical Session in Brain Monitoring and Techniques  
**Co-Directors:** Geoffrey T. Manley, MD, PhD, Shelly D. Timmons, MD, PhD  
**Faculty:** Julian E. Bailes Jr, MD, M. Ross Bullock, MD, PhD, Robert C. Cantu, MD, FACS, William M. Coplin, MD, Anthony Marmarou, PhD, Raj K. Narayan, MD

021 Cranial Radiosurgery  
**Director:** Antonio A. De Salles, MD, PhD  
**Faculty:** Steven D. Chang, MD, William A. Friedman, MD, FACS, Alessandra Augusta Gorgulho, MD, Michael J. Link, MD, Ajay Niranjani, MD
028 Neurotrauma Critical Care Review and Update for the Practicing Neurosurgeon  
*Co-Directors:* Craig H. Rabb, MD, FACS, Patricia B. Raksin, MD  
*Faculty:* Ahmed E. Badr, MD, Perry A. Ball, MD, FACS, Kathryn Marie Beauchamp, MD, Kevin J. Gibbons, MD, FACS, David O. Okonkwo, MD, PhD, Roland A. Torres, MD, Philip Andrew Villanueva, MD

031 Neurosurgery 2020: A Bright Future  
*Director:* Deborah L. Benzil, MD  
*Faculty:* John D. Davis IV, MD, Thomas L. Francavilla, MD, Kathryn Ko, MD, Ravi Kumar, Darlene A. Lobel, MD, Karin M. Muraszko, MD, Daniel M. Sciubba, MD, Gary Robert Simonds, MD, Randall W. Smith, MD, Shelly D. Timmons, MD, PhD, Craig Andrew Van Der Veer, MD, Graeme Woodworth, MD

032 Coding, Compliance and Revenue Issues in Cranial, Non-Spine and E&M Coding  
*Director:* Joseph S. Cheng, MD, MS  
*Faculty:* Mina Foroohar, MD, FACS, R. Patrick Jacob, MD, FACS, Robert R. Johnson II, MD, FACS, Alexander M. Mason, MD, John G. Piper, MD, Kim Pollock, RN, MBA, John Kevin Ratliff, MD, FACS

**MONDAY, MAY 3**  
**BREAKFAST SEMINARS**

103 Lumbar Spine Fusion  
*Moderator:* Joan Frances O’Shea, MD  
*Panelists:* Andrew T. Dailey, MD, Eric M. Massicotte, MD, MSc, Russ P. Nockels, MD, Daniel K. Resnick, MD

106 Functional Mapping of the Cerebral Cortex: Advantages and Limitations  
*Moderator:* Richard W. Byrne, MD  
*Panelists:* Gerhard M. Friehs, MD, P. Charles Garell, MD, Isabelle M. Germano, MD, FACS, Hiroto Kawasaki, MD, Daniel L. Silbergeld, MD

107 Chiari Malformations: Diagnosis Treatments and Failures  
*Moderator:* Edward H. Oldfield, MD  
*Panelists:* Ulrich Batzdorf, MD, Bermans J. Iskandar, MD, Arnold H. Menezes, MD, Karin M. Muraszko, MD

114 Intracranial Endoscopy  
*Moderator:* Alan R. Cohen, MD, FACS  
*Panelists:* Jacques Caemaert, MD, Prof, James M. Drake, MD, David F. Jimenez, MD, FACS, Jody Leonardo, MD, Henry W. S. Schroeder, MD, PhD

115 Malignant Brain Tumors: State-of-the-Art Treatment  
*Moderator:* Joseph M. Piepmeier, MD  
*Panelists:* Ennio Antonio Chiocca, MD, PhD, Francesco DiMeco, MD, Linda M. Liu, MD, PhD, Andrew T. Parsa, MD, PhD, Timothy C. Ryken, MD

**SCIENTIFIC SESSION I—TUMOR**  
*Moderators:* Frederick F. Lang Jr., MD, Linda M. Liu, MD, PhD

614 SYNTHES SKULL BASE AWARD  
**Gamma Knife Radiosurgery for Pituitary Adenomas: Factors Related to Radiologic and Endocrine Outcomes in a Series of 400+ Patients**  
*Authors:* Jason P. Sheehan, MD, PhD; Nader Pouratian, MD, PhD; Edward Laws, MD; Mary Lee Vance, MD (Charlottesville, VA)

627 First Results of the Interim Analysis of the Randomized Controlled SVASONA Trial for Idiopathic Normal Pressure Hydrocephalus (ISRCTN51046698)  
*Authors:* Ulrich Meier, MD, PhD; Johannes Lemcke, MD (Berlin, Germany); Cornelia Müller, MD; Michael Fritsch, MD, PhD; Michael Kiefer, MD, PhD; Regina Eymann, MD, PhD (Greifswald, Germany); Uwe Kehler, MD, PhD; Niels Langer, MD (Hamburg, Germany); Veit Rohde, MD, PhD; Hans-Christoph Ludwigs, MD, PhD (Gottingen, Germany); Friedrich Weber, MD, PhD; Veselav Remenez, MD (Cologne-Merheim, Germany); Martin Schuhmann, MD, PhD (Tubingen, Germany); Dirk Stengel, MD, PhD (Berlin, Germany)

631 Radiosurgery in Multiple Metastases, (=4), Criterias of Treatment  
*Authors:* Kita Sallabanda Diaz, MD, PhD; Jose Samblas Garcia, MD, FACS; Jose Carlos Bustos, MD, PhD; Jose Angel Gutierrez Diaz, MD, PhD; Cesar Beltran, MD, FACS; Graciela Gracia, MD, FACS; Cramen Peraza, PhD; Jose Miguel Delgado, PhD; Hugo Marsiglia, MD, Prof (Madrid, Spain)
Female Authors, Speakers, Panelists, and Moderators at the 2010 AANS Annual Meeting in Philadelphia (cont.)

**SCIENTIFIC SESSION IV—PEDIATRICS**

633 Predictors of Long-Term Survival in Children with Juvenile Pilocytic Astrocytoma  
*Authors*: Debraj Mukherjee, MD, MPH; Stephanie Downing, MD; David C. Chang, MD; Hadie Adams, MD; George I. Jallo, MD; Benjamin S. Carson, MD; Alfredo Quinones-Hinojosa, MD (Baltimore, MD)

**SCIENTIFIC SESSION VI—NEUROTRAUMA & CRITICAL CARE**

651 The Influence of Insurance Status on Transfer for Head Injury Patients at Massachusetts General Hospital from 1993-2009  
*Authors*: Maya Babu, BS; Brian V. Nahed, MD; Marc A. DeMoya, MD; William T. Curry, MD (Boston, MA)

**TUESDAY, MAY 4**

**BREAKFAST SEMINARS**

206 Surgical Treatment of Parkinson's Disease  
*Moderator*: Philip A. Starr, MD, PhD  
*Panelists*: Aviva Abosch, MD, PhD, M. Sam Eljamel, MD, FRCS, Kenneth A. Follett, MD, PhD, Robert R. Goodman, MD, PhD

217 Cerebral Trauma State-of-the-Art Treatment  
*Moderator*: Alex B. Valadka, MD, FACS  
*Panelists*: Austin R. Colohan, MD, FACS, Allen H. Maniker, MD, Geoffrey T. Manley, MD, PhD, David O. Okonkwo, MD, PhD, Jamie S. Ullman, MD

218 The Spectrum of Adjuvant Therapy for Brain Tumors  
*Moderator*: Frederick F. Lang Jr., MD  
*Panelists*: Jeffrey N. Bruce, MD, FACS, Amy B. Heimberger, MD, Randy Lynn Jensen, MD, PhD, Douglas W. Laske, MD, James M. Markert Jr., MD

220 Pediatric Head Injury  
*Moderator*: Thomas G. Luerssen, MD  
*Panelists*: Joel C. Boaz, MD, Ann-Christine Duhaime, MD, Hugh J. L. Garton, MD, MHSc

**AFTERNOON COURSE**

500 Advancements in Neurotrauma Care  
*Moderator*: Twyila Lay, NP, MS  
*Speakers*: Jonathan R. Jagid, MD, Marianne E. Langlois, PA-C, Geoffrey T. Manley, MD, PhD, Ava Puccio, RN, PhD, Shirley I. Stiver, MD, PhD, Shelly D. Timmons, MD, PhD

**AANS CEREBRO-VASCULAR SECTION**

707 AANS MEDICAL STUDENT SUMMER RESEARCH FELLOWSHIP  
Neural Proliferation of Bone Marrow-Derived Cells in a Murine Model of Intracerebral Hemorrhage  
*Authors*: Teresa Wojtasiewicz; Paul Gigante; Christopher P. Kellner; Justin Gorski; Mason Yeh; Sergei Sosunov; Brian Y. Hwang; Raqeeb M. Haque, MD; E. Sander Connolly Jr., MD (New York, NY)

716 Gender Differences in Clinical Presentation and Treatment Outcomes in Moyamoya Disease  
*Authors*: Nadia Khan, MD; Achal S. Achrol, MD; Raphael Guzman, MD; Robert Dodd, MD, PhD; Teresa Bell-Stephens, RN; Gary K. Steinberg, MD, PhD (Stanford, CA)

**AANS SECTION ON NEUROTRAUMA AND CRITICAL CARE**

*Moderators*: Michael G. Fehlings, MD, PhD, Shelly D. Timmons, MD, PhD

**AANS SECTION ON STEREOTACTIC AND FUNCTIONAL SURGERY**

*Moderators*: Aviva Abosch, MD, PhD, Michael G. Kaplitt, MD, PhD  
(AANS/CNS Stereotactic and Functional Section Jointly Sponsored by Pediatric Section Symposium)

720 The History of Hemispherectomy for Epilepsy: From Radical Anatomic Resections to Less Invasive Hemispheric Disconnections  
*Authors*: Biji Bahuleyan, MD; Shenandoah Robinson, MD, FACS; Alan R. Cohen, MD, FACS (Cleveland, OH)
724 Complete Resection as Strongest Predictor of Seizure Freedom after Surgery for Malformations of Cortical Development
Authors: Edward Chang, MD; Doris Wang, MD; Anthony Barkovich, MD; Tarik Tihan, MD; Paul Garcia, MD; Nicholas M. Barbaro, MD (San Francisco, CA)

726 White Matter Connectivity of Human Hypothalamus
Authors: Jean-Jacques Lemaire (Clermont-Ferrand, France); Andrew J. Frew, PhD; David MacArthur, MD, MPhil; Alessandra A. Gorgulho, MD; Nader Pouratian, MD; Noriko Salomon, MD (Los Angeles, CA); Clive Chen, MD (Taipei, Taiwan); Eric J. Behnke, MSc; Antonio A.F. DeSalles, MD, PhD (Los Angeles, CA)

AANS SOCIOECONOMIC SESSION
Moderators: Deborah L. Benzil, MD, Darlene A. Lobel, MD
Leveraging Political Influence at the Federal Level
Speaker: Gail L. Rosseau, MD

730 Post-Operative Outcomes Among Older Patients with Pituitary Tumors
Authors: Debraj Mukherjee, MD, MPH; Rachel Grossman, MD; Kaisorn L. Chaichana, MD; David C. Chang, PhD; Roberto Salvatori, MD; Henry Brem, MD; Alfredo Quinones-Hinojosa, MD (Baltimore, MD)

732 The Surgeon’s Choices, and Choice of Surgeons, Affect the Cost of Single-Level Anterior Cervical Surgery
Authors: Nancy E. Epstein, MD (New Hyde Park, NY); Garry Schwall, RPA-C (Mineola, NY)

734 MEDICAL STUDENT ABSTRACT AWARD (YNS)
Does Age Impact Outcome Following Subdural Hematoma Evacuation?
Authors: Gina Deck, BS; James Carroll, MD; Sing Chau Ng; Jennifer Tseng, MD; Julie Pilitsis, MD, PhD (Worcester, MA)

AANS SECTION ON SPINE

743 Human Serotonergic hNT2.19 Cell Therapy in a Contusive Spinal Cord Injury Model: Route of Transplantation Impacts Motor Versus Sensory Recovery

Authors: Stacey Quintero Wolfe, MD (Honolulu, HI); Yerko Berrocal, BS; Damien D. Pearse, PhD; Mary J. Eaton, PhD (Miami, FL)

AANS SECTION ON TUMOR I
Symposium: Brain Tumor Immunotherapy
Moderators: Roberta P. Glick, MD
John H. Sampson, MD, PhD
Inhibition of Regulatory T-Cell Immunosuppression in GBM
Speaker: Amy B. Heimberger, MD

WEDNESDAY, MAY 5
BREAKFAST SEMINARS
302 Cerebral Neuromonitoring
Moderator: Odette Althea Harris, MD, MPH
Panelists: Helmut Beralimanity, MD, Prof, Jeremy D. W. Greenlee, MD, Lawrence F. Marshall, MD, Shirley I. Stiver, MD, PhD, Daniel Yoshor, MD

303 Emerging Concepts in Stem Cell Biology and Cell Based Therapies
Moderator: John A. Boockvar, MD
Panelists: Daniel James Guillaume, MD, Daniel A. Lim, MD, PhD, Nathan R. Selden, MD, PhD, Viviane S. Tabar, MD, Victor C. K. Tse, MD, PhD

304 International Opportunities in Neurosurgery
Moderator: Benjamin T. White, MD
Panelists: Atos Alves De Sousa, MD, Merwyn Bagan, MD, MPH, Armando Basso, MD, Yoko Kato, MD, Gail L. Rosseau, MD
305 Epilepsy: New Surgical Treatment and Management Approaches  
**Moderator:** Lisa P. Mulligan, MD  
**Panelists:** Nicholas M. Barbaro, MD, Frederick A. Boop, MD, FACS, Gerald A. Grant, MD, Kathryn Lois Holloway, MD, Guy M. McKhann II, MD, Dennis D. Spencer, MD

307 Peripheral Nerve Entrapment Syndromes  
**Moderator:** Eric L. Zager, MD  
**Panelists:** Allan J. Belzberg, MD, David G. Kline, MD, Shaun Thomas O’Leary, MD, PhD, Robert J. Spinner, MD, FACS, Lynda Jun-san Yang, MD, PhD

311 Update in Psychosurgery  
**Moderator:** G. Rees Cosgrove, MD, FRCS  
**Panelists:** Aviva Abosch, MD, PhD, Paul S. Larson, MD, Kendall H. Lee, MD, PhD, Michael Y. Oh, MD, Parag G. Patil, MD, PhD

317 Neuromodulation for Chronic Pain  
**Moderator:** Christopher J. Winfree, MD  
**Panelists:** George T. Mandybur, MD, Alon Y. Mogilner, MD, PhD, Julie Georgia Pilitsis, MD, PhD, Joshua M. Rosenow, MD, Donald M. Whiting, MD

PLENARY SESSION III  
LOUISE EISENHARDT LECTURE  
**Introduced By:** Karin M. Muraszko, MD  
**Speaker:** Mary Sue Coleman, PhD

802 Endoscopic Third Ventriculostomy in Adults: A Technique to Deal with the Neural (Opaque) Floor  
**Authors:** Walter Grand, MD; Jody Leonardo, MD (Buffalo, NY)

804 Cortical Biopsy and Empirical Post-Operative Shunt Programming: A Novel Approach to Idiopathic Normal Pressure Hydrocephalus  
**Authors:** Joel A. Bauman, MD; Peter Madsen, BS; Roy Hamilton, MD, MS; Sunil Patel, MS; Anuj Basl, MD (Philadelphia, PA); Eric M. Jackson, MD (Boston, MA); Edward B. Lee, MD; Joanna Lopinto, BSN, RN; Steven E. Arnold, MD; Christopher M. Clark, MD; Leslie M. Shaw, MD; John Q. Trojanowski, MD, PhD; M S. Grady, MD (Philadelphia, PA)
Female Authors, Speakers, Panelists, and Moderators at the 2010 AANS Annual Meeting in Philadelphia (cont.)

AANS SECTION ON PERIPHERAL NERVE

Moderators: Allen H. Maniker, MD, Lynda Jun-san Yang, MD, PhD

842 Quantification of Glioma Removal by Intraoperative High-Field Magnetic Resonance Imaging
Authors: Daniela Kuhnt, MD (Marburg, Germany); Sven Martin Schlaffer; Oliver Ganslandt, PhD; Michael Buchfelder, PhD, MD (Erlangen, Germany); Christopher Nimsky, PhD, MD (Marburg, Germany)

843 SETA – Simplified Endoscopic Transnasal Approach
Authors: Yvonne Mondorf, MD; Katja Plasmans, MD; Michael Robert Gaab, MD, PhD (Hannover, Germany)

844 PREUSS AWARD
Modeling Angiogenesis and Therapeutic Response to Notch Inhibition in a Novel 3-D Organotypic Culture System of Glioblastoma
Authors: Viviane S. Tabar, MD; Rong Wang, PhD; Fumiko Shimizu, PhD; Georgia Panagiotakos, BS; Maartje van der Heijden; Tamara Major, PhD; Jayanthi Menon, MD; Koos Hovinga, MD (New York, NY)

847 Clinical Outcomes after Surgical Resection of Lesions in Eloquent Cortex using Functional MRI
Authors: Mark P. Garrett, MD; David Wilson, MD; Leslie Baxter, PhD; Kris Smith, MD (Phoenix, AZ)

PRACTICAL CLINICS/EXTENDER PROGRAMS

500 Advancements in Neurotrauma Care
Moderator: Twyila Lay, NP, MS
Speakers: Jonathan R. Jagid, MD, Marianne E. Langlois, PA-C, Geoffrey T. Manley, MD, PhD, Ava Puccio, RN, PhD, Shirley I. Stiver, MD, PhD, Shelly D. Timmons, MD, PhD

Congratulations to all Women Neurosurgeons Board-Certified in 2008 & 2009

Simone Alise Betchen, MD
Stephanie G. Greene, MD
Naina Lynn Gross, MD
Jeanette M. Liu, MD
J. Nozipo Maraire, MD
Katrina G. Murphy, MD, PhD
Donna A. Saatman, MD
Carrie Lee Shulman, MD
Karir R. Schwartz, MD
Francesca D. Tekula, MD
Lynda Jun-san Yang, MD, PhD

WINS BOARD OF DIRECTORS

President: Aviva Abosch, MD, PhD
President-Elect: Shelly Timmons, MD, PhD
Secretary-Treasurer: Odette Althea Harris, MD, MPH
Immediate Past President: Lauren Schwartz, MD

EXECUTIVE COMMITTEE
Isabelle M. Germano, MD, FACS
Holly S. Gilmer, MD
Sarah C. Jost, MD
J. Nozipo Maraire, MD
Karir M. Muraszko, MD
Susan Panullo, MD
Julie G. Piilitsis, MD, PhD
Gail L. Rosseau, MD
D. Roxanne Todor, MD
Jaime S. Ullman, MD
Edie E. Zusman, MD, FACS

AANS ADMINISTRATION:
Chris A. Philips, Ron Engelbreit, Sandy J. Meyer
**MEET THE OFFICERS 2009 - 2010**

**Aviva Abosch, MD, PhD**  
*President*  
Dr. Abosch received her medical degree and Ph.D. in neurobiology from the University of Pittsburgh. She is a faculty member in the Department of Neurosurgery at the University of Minnesota Medical Center, where she is Director of Epilepsy, Stereotactic and Functional Neurosurgery. Her research interests include neural mechanisms underlying abnormal movement in Parkinson’s disease, and neuroanatomical pathways of abnormal behavior and the movement disorders, using a combination of high-field, functional, and diffusion tensor MRI. She is on the Board of Directors of the American Association of Stereotactic and Functional Neurosurgery.

**Shelly Timmons, MD, PhD**  
*President-Elect*  
Dr. Timmons completed her residency training in neurological surgery and her Ph.D. at the University of Tennessee Health Science Center-Memphis. She is a neurological surgeon with Semmes-Murphy Clinic in Memphis, TN, Associate Professor of Neurosurgery and Chief of Tennessee Health Science Center Department of Neurosurgery, and Chief of Neurosurgery at the Regional Medical Center at Memphis/Elvis Presley Memorial Trauma Center. She is actively engaged in clinical research, primarily aimed at improving outcomes after traumatic brain injury.

**Odette Althea Harris, MD, MPH**  
*Secretary-Treasurer*  
Dr. Harris received her medical degree and completed residency training at Stanford University, and received an MPH from the University of California, Berkeley. She is currently Acting Associate Professor of Neurosurgery at Stanford University. She is the Director of Brain Injury at Stanford University Medical Center, the Associate Chief of Staff in Polytrauma and Veterans Affairs at the Palo Alto Health Care System, Director of the Defense Veterans Brain Injury Center, and Visiting Consultant of Neurosurgery for the Department of Surgery at the University Hospital of the West Indies. Her research focuses on the epidemiology and outcomes of traumatic brain injury.

**Cathy Mazzola, MD** adopted two more sisters from Poland this past January. The girls joined their three brothers already ensconced in the Mazzola family. The children are happily learning English and adapting to life in the United States in their new family (see picture).

A blog promoting and growing women in neurosurgery has been started by Deborah Benzil, MD, FACS. Peruse and contribute to the new blog at http://womenneurosurgeons.blogspot.com.

Life is proving to be abundantly busy and successful for Joan O’Shea, MD. She is now President of South Jersey Surgical Center in Mt. Laurel, NJ, has been elected Chief of Spine in the Virtua Health System of Southern New Jersey and recently gave birth to a beautiful baby boy, her fourth child.

Maryam Rahman, MD, a fifth year neurosurgery resident at the University of Florida, recently earned her Masters of Science in Clinical Investigation, culminating a two year fellowship studying malignant glioma growth patterns and developing novel therapies for GBM.
HEART OF A LION
Hands of a Woman
WHAT WOMEN NEUROSURGEONS DO
Creativity in Honor of the 20th Anniversary of Women in Neurosurgery (WINS)
Deborah L. Benzil, MD
Karin M. Muraszko, MD

Commemorating the 20th anniversary of the forming of Women in Neurosurgery, this limited-edition volume showcases the creative collections of women neurosurgeons.

From personal memoirs of the surgeons’ struggles as they faced overwhelming obstacles entering a traditionally male-dominated profession, to showcasing their varied talents in the areas of painting, photography and poetry, Heart of a Lion, Hands of a Woman gets into the mind of female neurosurgeons like no other.

The heart, strength and determination of these women come through the page and reveal the deep pride and passion they have for their careers, their personal lives and their families.

Purchases can be made by visiting http://marketplace.aans.org or calling toll free (888) 566-AANS (2267) ext. 539.

Heart of a Lion Hands of a Woman
Pages: 175
AANS Order #: 5732
Price: $40.00
WINS MISSION
To educate, inspire, and encourage women neurosurgeons to realize their professional and personal goals, and to serve neurosurgery in addressing the issues inherent to training and maintaining a diverse and balanced workforce.

The Fourth Annual WINS Breakfast Reception
features Mary Sue Coleman, PhD.
Wednesday, May 5, 2010
7:30—9:00 a.m. at the
Philadelphia Marriott Downtown Liberty Ballroom.
For more information or tickets the WINS Breakfast Reception, contact Melissa Hackett at mmh@aans.org or 847-378-0531.

Renew or become a member of WINS online at www.my-WINS.org
(use your AANS login information)
For help obtaining a password, please contact Sandy Meyer at smj@aans.org