

# Heads Up

A newsletter for alumni, colleagues, and friends of the Department

## Duke Endowment Funds North Carolina Children's Airway Center!

The North Carolina Children's Airway Center has been awarded a grant from The Duke Endowment from 2007 to 2009 for the creation of a center to care for children with aerodigestive problems. The Center will be a unique public private endeavor, brought into existence by funding from the Department of Otolaryngology/Head and Neck Surgery, the Department of Pediatrics, and The Duke Endowment. It will involve multidisciplinary evaluation and treatment of children with complex airway and swallowing disorders. The Center seeks first and foremost to provide comprehensive cutting edge care for children with these unique problems in an efficient and timely manner. Additionally, the Center will seek to instruct families, medical students, clinicians and healthcare providers, and to perform research into pediatric airway disorders. The North Carolina Children's Airway Center is currently in its organizational stage. Formal multidisciplinary clinics are expected to be opened in late summer or early fall of 2007. The Center's core organizational structure includes Medical Director George Retsch-Bogart, MD, Surgical Director Carlton J. Zdanski, MD, and Center Coordinator Kathy Abode, RN.

The following is the success story of one patient who has benefited from the services and excellent care of the airway team at UNC, as told by his mother, Chandra Moore.

*I still remember it like it was yesterday, the very first time I laid my eyes on Prentis. He was being held by a volunteer in his hospital room on the Pediatric floor at UNC Hospitals in Chapel Hill. We were told he was a 24-week preemie. He was so tiny; he had "chipmunk cheeks", big bright eyes, and was very alert. He had a tracheostomy tube. The trach collar was almost as big as he was. He had a perfectly shaped head, not the "preemie" shaped-head I was used to seeing. I could tell this was a special baby, and I was instantly hooked.*

*I was at UNC to prescreen Prentis for placement at RHA-Howell Care Center in Greenville, North Carolina, where I am Director of Respiratory Care. During the prescreen process, I learned Prentis had bronchopulmonary dysplasia, subglottic stenosis, and*

Continued on page 2



January 2004: Dr. Amelia Drake holds Prentis in the PICU, checks his tracheostomy tube.



December 2006: A very active 3-year-old Prentis has been decannulated, but still has a tracheocutaneous fistula.



June 2007: Wayland, Prentis, and Chandra Moore in the pre-op waiting area before Prentis goes in for surgery to close his stoma.



Airway Surgeons from the Division of Pediatric Otolaryngology: Drs. Carlton Zdanski, Amelia Drake, and Austin Rose.

*gastroesophageal reflux disease. He ate by mouth, did not have a G-tube, and was in Department of Social Services custody. DSS was in the process of terminating parental rights. At that time, I remember making the statement, "This one is mine."*

*When I returned to our facility later that day, I told the staff about the baby we had prescreened. I let everyone know that he was going to be "my baby." I told them that I would share him, but that he was MY BABY! We often "claimed" the babies when they arrived at our facility, so we could establish a bond and "spoil them rotten."*

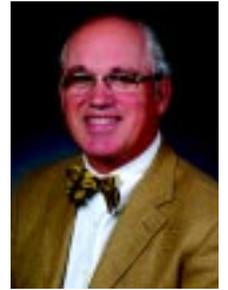
*During Prentis' stay at our facility, we quickly established a bond. I tried to spend a little time with him everyday. Some days this was difficult because I was responsible for running the Respiratory Department at our facility. I started telling my husband about this special baby I had become attached to. I asked his DSS social worker for permission to take Prentis on therapeutic leave. Permission was granted, and I started bringing Prentis home for a few hours each week. My husband, Wayland, quickly established a bond with Prentis. He often teases me saying, "You knew what you were doing when you started bringing him home." Prentis did well at the facility. He learned to crawl and later walk.*

*As the months went by, it grew harder and harder to take Prentis back to the facility. Wayland and I made to decision to try to adopt him. At that time, parental rights were not yet terminated. We decided to do foster care until we could adopt him. Prentis was a special little boy who already had overcome a lot. We felt he had a lot of potential, and did not deserve or need to be in a long term care facility. Once we had our foster care license, we brought Prentis home to live with us at age 2½, trach and all.*

*I knew Prentis had subglottic stenosis, but I didn't know how severe it was until he started seeing Dr. Amelia Drake. After months and several visits to the ENT Clinic at UNC, Dr. Drake determined Prentis would require major surgery to repair his subglottic stenosis. On May 31, 2006, Prentis underwent tracheal reconstruction surgery which included a rib graft and a stent between his vocal cords. We knew Prentis would be in the hospital for 7-10 days, and would be discharged with the stent and metal trach. However, things did not go as planned and we ended up spending 15 days at the hospital. Prentis had severe reflux which we determined was due to the stent. With our approval, Dr. Drake removed the stent much earlier than planned. Once the stent was removed, Dr. Drake reported that his airway looked great, better than she expected. Prentis' reflux dramatically improved and he was discharged with a normal Shiley trach. Prentis was back at UNC in September, 2006, for decannulation of his tracheostomy tube.*

*On June 13, 2007, Prentis had surgery to close his tracheal stoma. Everyone at UNC Hospitals has been wonderful – Dr. Drake and the Airway Team, the ENT clinic staff, the nurses in pre-op surgery, PICU, and 7th floor Pediatrics. It's especially nice to know that the staff remembers you and your child by name when you return for a hospital visit. We can't thank you enough for the great care you have given our son Prentis.*

## Chair's Corner



It is a tremendous honor that The Duke Endowment has given us significant support for the North Carolina Children's Airway Center. This important endeavor will help care for numerous children in North Carolina who have significant airway problems often leading to morbidity and mortality in the past. By instituting this innovative program, we will be able to care for these patients and avoid disasters that have previously occurred. The program includes an educational arm as well a patient care arm. The North Carolina Children's Airway Center typifies our reasons for being at UNC Hospitals.

We also had a very successful Fischer Society Meeting this year, and afterwards said a fond sendoff to our four outstanding chief residents. Drs. Adam Zanation, John Alldredge, Krishna Patel, and Marc Bassim will be missed by all of us. Their accomplishments and promise for the future are tremendous endorsements of their own personal commitment to excellence as well as the education that we have provided them. We are most proud of their opportunities for the future and look forward to hearing from them for many years to come.

Harold C. Pillsbury, MD  
Department Chair

*The adoption was final in December of 2006! Prentis is a happy, energetic, talkative little boy who loves to play with balls, sings in the children's choir and attends a regular daycare class. A lot of people tell us Prentis is blessed to have been adopted by us, but we both agree that we are the ones who are blessed!*

"Prentis was one of four children who were able to leave chronic care facilities in North Carolina over the past six months in part due to successful surgical intervention," says Dr. Drake. "He is exactly the type of child benefitted by our Airway Center. It is an ongoing joy to interface with his caring parents."

The North Carolina Children's Airway Center will take a multidisciplinary approach to each patient and a full range of pediatric medical and surgical services, including anesthesia, ICU care, feeding and swallowing, nutrition, tracheostomy care, social work, respiratory therapy, speech and communication, as well as the full range of pediatric specialty services available at the North Carolina Children's Hospital, will be available to patients of the Airway Center. The physicians at the Center have an interest in caring for all children with airway problems, including those with existing tracheotomies or with new airway problems. If you have a patient you would like to refer to the North Carolina Children's Airway Center, please feel free to contact the OHNS Clinic at 919-966-6485 and ask for Marjorie Thomas, RN, or call the Consultation Center at 800-862-6264, and request Dr. Zdanski.



This year all of our chief residents have been offered prestigious fellowships. This photo was taken at the banquet held in their honor on June 16, 2007. Left to right: **John W. Alldredge, MD**, will be doing a Rhinology fellowship at the Sinus and Nasal Institute of Florida in St. Petersburg. **Adam M. Zanation, MD**, will be at the University of Pittsburgh Medical Center doing a Skull Base/Head and Neck Surgical Oncology fellowship. **Marc K. Bassim, MD**, is headed out to California for a fellowship in Otolaryngology/Neurotology at the House Ear Institute in Los Angeles. **Krishna G. Patel, MD, PhD**, is also going to California for a fellowship in Facial Plastic and Reconstructive Surgery at the University of California-Davis.

The new interns have arrived! This photo was taken at the Friday Center on July 2nd, when all new house staff officers in the UNC School of Medicine met for orientation. Left to right: **Joseph P. Roche, MD** (Medical College of Wisconsin, Milwaukee, WI); **Maher N. Younes, MD** (American University of Beirut, Beirut, Lebanon); **Rupali N. Shah, MD** (Emory University School of Medicine, Atlanta, GA); and **Joshua B. Surowitz, MD** (University of North Carolina School of Medicine, Chapel Hill, NC). They will complete the one-year internship in General Surgery, followed by four years residency on Otolaryngology/Head and Neck Surgery. Dr. Roche, however, is in the Research Track, and after internship will spend two years in research before continuing with the four years of clinical and surgical training.



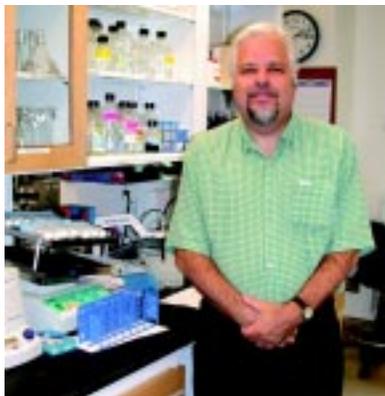
## Newton D. Fischer Society Meeting:



L to R: Drs. Chapman McQueen (Alamance ENT, Burlington, NC), Newton Fischer (Professor Emeritus, UNC), and John Emmett (Memphis, TN)

This year's Newton D. Fisher Society Meeting was held on June 16th and, according to course director Dr. Austin Rose and meeting coordinator Ellen Douth, it was a tremendous success. In addition to a number of presentations by our own faculty and residents, the Department welcomed speakers from throughout the state and across the country including Dr. Merritt Seshul and Dr. Will Harrill from Hickory, NC and Dr. Greg Staffel from The Shea Clinic in Memphis, TN. Dr. Staffel's demonstration of his electronic medical records system was a true multi-media extravaganza, leaving many in the audience, including Dr. Fischer, truly amazed. The program was concluded with a wonderful and inspiring presentation entitled "Pediatric ENT Lessons Learned in the Third World & the United States" by keynote speaker Dr. James Sidman of the University of Minnesota. This year also saw the addition of a number of poster presentations. Dr. Rose would like to thank Ellen Douth for her fantastic job with organizing this meeting. The meeting continues to offer AMA Category 1 CME credit and will be held again next year on June 7th, 2008, here in Chapel Hill. Mark your calendar!

## UNC Receives Lance Armstrong Foundation Grant to Study Head and Neck Cancer Survivors



Dr. Olshan in the Epidemiology lab in the Hooker Research Center.

Treatment for head and neck cancer is particularly aggressive, affecting speech, swallowing, breathing and communication. A grant from the Lance Armstrong Foundation to the University of North Carolina at Chapel Hill will fund research on the experiences of head and neck cancer survivors, so that health professionals can effectively manage the impact of treatment on a patient's social, family and work roles.

examine the influence of social, clinical, access to care, and behavioral factors on quality of life. Blacks have a higher incidence and worse survival than other groups.

"Given the paucity of data and studies on quality of life among African-American head and neck cancer survivors we expect this study to yield valuable new data," Olshan said.

Olshan and his colleagues will analyze data collected for the Carolina Head and Neck Cancer Study (CHANCE), the largest epidemiologic study of squamous cell carcinoma of the head and neck in the United States and the first to include a significant number of black patients. Patient information will be collected one year after diagnosis and three years after diagnosis. The CHANCE study, which is ongoing, is funded by the National Cancer Institute.

Pilot funds for the quality of life work were obtained from the Excellence Fund of the School of Medicine. CHANCE collaborators include Drs. Mark Weisler, JP Riddle Distinguished Professor of otolaryngology/head and neck surgery; William Funkhouser, professor of pathology; and Jianwen Cai, professor and associate chair of biostatistics in the UNC School of Public Health.

The Lance Armstrong Foundation, founded in 1997 by cancer survivor and champion cyclist Lance Armstrong, is a nonprofit organization located in Austin, Texas.

*UNC News Services, May 29, 2007.*

The three-year, \$246,760 grant was awarded to Dr. Andy Olshan, professor and chair of epidemiology in the UNC School of Public Health and principal investigator of the study. Olshan is also a research professor in the School of Medicine's department of otolaryngology/head and neck surgery and program leader for cancer epidemiology in the UNC Lineberger Comprehensive Cancer Center.

Because quality of life outcomes are especially critical for head and neck cancer (oral, pharyngeal, laryngeal) patients and their caregivers, more research is needed on the experiences of survivors, especially among black patients, Olshan said. The study will

# Annual Gathering of Friends in OHNS



Dr. Greg Staffel (Guest Speaker, The Shea Clinic, Memphis, TN) and Dr. James Sidman (Keynote Speaker, University of Minnesota, Minneapolis, MN)



L to R: From the UNC Dept. of OHNS, Dr. Robert Buckmire (presenter), Dr. Adam Zanation (chief resident, presenter), Dr. Carlton Zdanski, and Dr. Austin Rose (Course Director)

## Kanapkey and Roush Awarded by Students

Students graduating in May honored two of their clinical preceptors at a graduation ceremony on May 13th for the School of Medicine's Division of Speech and Hearing Sciences in the Department of Allied Health Sciences. This year both honorees are from UNC Hospitals.



Brian Kanapkey and Pat Roush were named Clinical Preceptors of the Year by their students.

The Speech-Language Pathology Class of 2007 selected Brian Kanapkey, MA, a speech pathologist at UNC Hospitals, as Speech-Language Pathology Preceptor of the Year. Considering that twenty-two students in the Class of 2007 worked with a total of nearly one hundred highly qualified clinical supervisors, the award is truly an honor. One of his students, Erin Daly, said, "As a clinical supervisor, Brian creates a challenging learning environment while maintaining a comfortable and open supervisor-student relationship. He is constantly teaching and sharing his wealth of knowledge in order to maximize his student's learning in each situation of every day. Brian is able to provide his students with a balance of supervision and independence, which gives them the knowledge and confidence in order to become skilled clinicians."

For Audiology Preceptor of the Year, the Au.D. class of 2007 selected Patricia Roush, AuD, Director of Pediatric Audiology at UNC Hospitals. The Division's Externship Coordinator for Audiology, Dr. Debra Weisleder, noted that the award honors the preceptor who, over four years, stood out as exemplary in clinical mentoring. Students in the AuD class of 2007 were supervised by over seventy preceptors at twenty-six different clinical sites, with each student accumulating over 2,000 clinical clock hours. In presenting the award, AuD graduate Philip Griffin remarked, "Students value her characteristics of honesty, caring, passion for teaching, and humanistic outlook. Our experiences with her enriched us as students and provided us a definition of what it is to be a great audiologist. Every student loves working with Dr. Pat Roush, and we are thankful for all the mentoring and valuable time and experiences she gave each of us."

# Whatever happened to... Dr. Dell Yarbrough?

*Wendell G. Yarbrough, MD, completed his residency training in Otolaryngology/Head and Neck Surgery at UNC in 1994, and after fellowship in the Department of Surgery, he joined our faculty in 1996 for a period of seven years.*

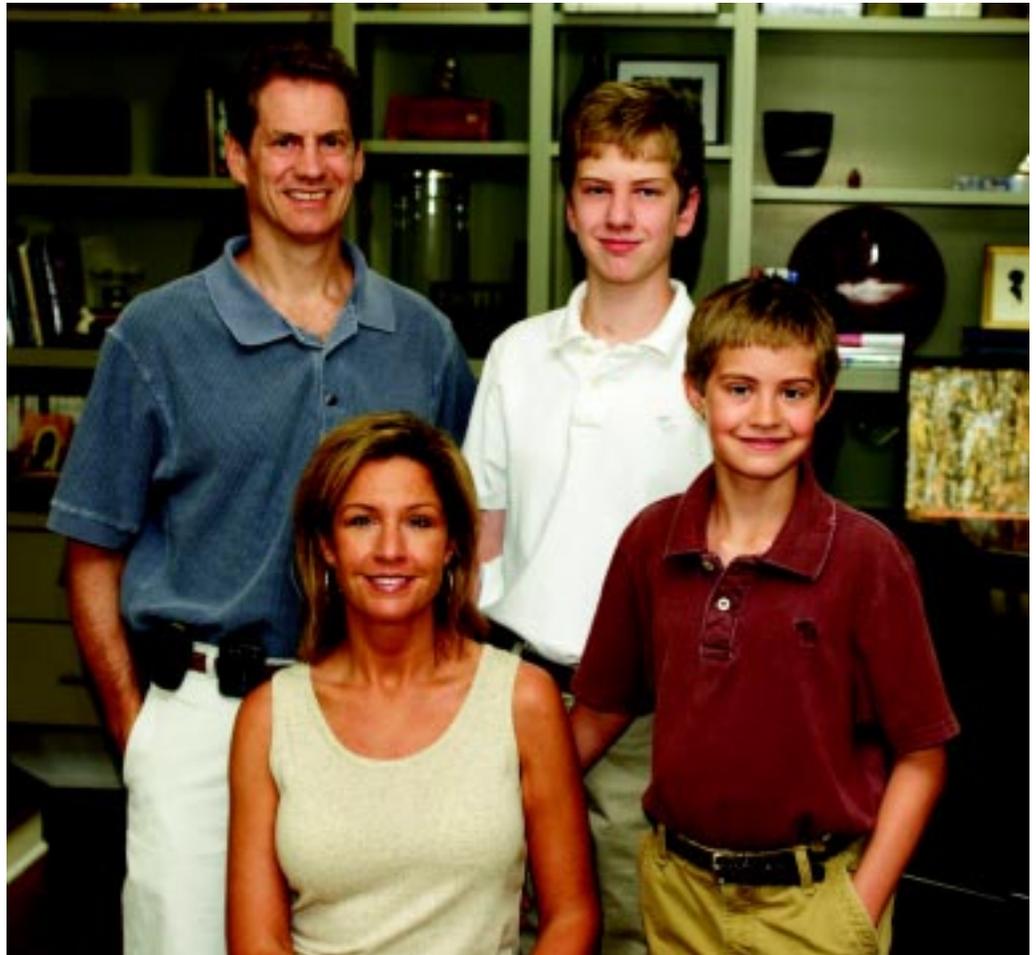
So you thought I'd never leave. It's hard to believe that we left Chapel Hill over four years ago, after living in the southern part of heaven for 22 years. And what a 22-year stint it was: undergraduate, medical school, residency, fellowship and, finally, faculty. Not to mention two kids and two national championships in basketball. It should be noted that, although Michael Jordan and I started UNC at the same time, I graduated first! You see where that's gotten me. But I digress...

One of the hardest things about departing Chapel Hill was leaving the great people in the Department of Otolaryngology. It was truly an incredible honor and experience to be one of the last residents trained while Dr. Newton Fischer was still clinically active. After his retirement, we continued to share a common interest in gardening, dogs, and pest control, e.g., residents. I also had the good fortune to be trained by (and later partners with) the incomparable Dr. Paul Biggers before his untimely death. He was a shining example of compassion, and his dedication to UNC and the School of Medicine was unparalleled.

Drs. Pillsbury, Weissler, Shockley, and Drake constituted the backbone of the department during my training, and continue to provide invaluable advice and examples of true academic excellence in our field. Later additions to the faculty including Drs. Shores, Buchman and Senior created an energetic and well-balanced department that was and continues to be the envy of many academic institutions.

Since joining the faculty at Vanderbilt, I have continued to practice as a physician/scientist. I've had the good fortune to have great partners in Jim Netterville, Brian Burkey and Bob Sinard. Additionally, it's been a real joy to work again with Gaelyn Garrett, my co-chief resident at UNC.

One aspect that drew me to Vanderbilt was philanthropic support for a Head and Neck Oncology lab. Little did I realize that the lab was a virtual one, comprising only two tables, no equipment and some big plans! I am proud to say that, after my first three months,



The Yarbrough family: Dell, Glenda, Gray (beside his father), and Miller.

we had a fully functional cell and molecular biology lab. Our research continues to progress with our major foci being: modeling of squamous cell carcinoma, genomic and proteomic analysis of tumor, biomarker discovery, HPV's association with head and neck cancer, and basic studies describing ARF and LZAP tumor suppressors.

On a personal level, it has taken a little while but Glenda and I have grown to love what is affectionately known as "Nashvegas". Gray, who is 14, starts high school in the fall and is the most kind-hearted soul you'll ever know. (Did I mention that he's really smart, too?) Miller, 10, is pretty much into everything when it suits him, and will succeed at anything he reluctantly tries. We dwell in a 113-year-old money pit of a house that Glenda threatens to abandon on a daily basis. (Fortunately, it's located only two miles from a great local brewery, constituting its one salvation in Glenda's mind.) And, of course we still have our usual pack of dogs.

I miss my friends and colleagues in Chapel Hill, and no matter where we live, it will always be home in our hearts. Please visit us if you're ever in Music City, USA. You can even stay in our 113-year-old guestroom, such as it is!

# Announcements

*Just a few of the many exciting things happening in our Department*

**Emily Buss, PhD**, was promoted to Associate Professor with Tenure. She started her career at UNC as a post-doctoral fellow in 1997, and then was invited to join the faculty in 2001 as Assistant Research Professor. Dr. Buss is an auditory science researcher involved in a range of projects investigating the perception of sound in human listeners. In addition to basic psychoacoustics, her previous work has focused on the development of hearing in children, understanding speech in noise, and computer modeling of complex sound processing in normal-hearing adults. Dr. Buss is also involved in several clinical cochlear implant investigations, providing support in experimental design and analysis.

**Oliver F. Adunka, MD**, joined the faculty on July 1, 2007, as Clinical Assistant Professor. Dr. Adunka earned his MD in 1999 from the Medical University of Vienna, Austria, and received his license to practice medicine in both Austria and Germany. He completed residency training in Otolaryngology in 2004 and earned a post-doctoral degree in 2005, both at the J.W. Goethe University in Frankfurt, Germany. In 2005, Dr. Adunka was invited to train under Drs. Craig Buchman and Harold Pillsbury for a two-year fellowship in Otolaryngology/Neurotology. Dr. Adunka's practice is dedicated to the diagnosis and treatment of ear and hearing disorders. His current research interests include acoustic tumors, cochlear implants, and hearing preservation.

**Xiaoying Yin, MD**, joined the faculty as Research Assistant Professor on July 1, 2007. She earned her MD from Xi'an Medical University in Xi'an, China, followed by residency in clinical surgical pathology also in Xi'an. She completed a two-year fellowship in the Department of Pathology at the University of Pittsburgh, and worked for several years in the Division of Hematology/Oncology at the Children's Hospital of Pittsburgh, conducting various research projects. After five years as a Senior Research Associate at the UNC Lineberger Comprehensive Cancer Center, Dr. Yin joins us to continue her work in the field of cancer research. Her most recent research is on cancer cachexia and tumor vaccines in head and neck cancer, which will help to determine the pathophysiology of cancer cachexia and to improve head and neck cancer prevention and recurrence.

BME Core Faculty member, **Charles Finley, PhD**, will be one of four faculty members at the University of North Carolina at Chapel Hill named Faculty Fellows of the Renaissance Computing Institute (RENCI) and will spend the next year working closely with RENCi staff on innovative research projects that use advanced technologies. As a Faculty Fellow, Dr. Finley will collaborate with RENCi staff and have access to RENCi high-performance computing, storage, visualization and data management/analysis resources, and to sensor and hardware prototyping capabilities. Each fellow is eligible for up to \$50,000 to support travel, salaries, equipment and other research needs. Dr. Finley's research team will use high-performance computing and advanced visualization tools to improve the design and application of cochlear implants, devices that have helped to restore functional speech understanding in patients with severe hearing losses. Dr. Finley will develop patient-specific computational models to determine the final positioning of electrode contacts in the implant that take advantage of the patients' functioning neurons. These models also will provide insight into the stimulation mechanism that occurs in the cochlea, which could impact the design and fitting of implant devices.

**Adam M. Zanation, MD**, received a 2007 House Officer Award. These awards are given every year to five senior residents in the UNC School of Medicine who demonstrate effective communication with and empathy for patients and their families, exemplary professionalism, and the highest standards of patient care. The award was presented at the Biannual Meeting of the Medical Staff on May 30th. Dr. Pillsbury said, "It is gratifying to have this opportunity to express our respect and appreciation for Adam and his contribution to the high quality of care we provide at our medical center."

Three residents have been awarded Research in Otolaryngology & Allergy Development (ROAD) scholarships for \$5,000 each: **Deidra A. Blanks, MD** ("Long-Term Treatment of IMOs for Eustachian Tube Dysfunction in Rats"); **Alisha N. West, MD** ("Role of Eotaxin in Chronic Rhinosinusitis"); and **Rose J. Eapen, MD** ("Treatment of Nasopharyngeal Allergy to Improve Endotoxin Induced Middle Ear Effusions").

**Gregory J. Basura, MD, PhD**, was granted another year for research by the Deafness Research Foundation. This \$20,000 award will fund his project, "Synaptic Organization and Plasticity in the Auditory Cortex Following Cochlear Ablation: Role of Serotonin Neurotransmission." Paul B. Manis, PhD, is the mentor on the project.

**Mihir R. Patel, MD**, a second year resident on the research track, received a Young Investigator Award from the American Head & Neck Society and the American Academy of Otolaryngology-Head and Neck Surgery. The project is titled "Immunohistochemical Microarray Gene Expression Differences of Thyroid Neoplasms." Drs. Shores, Couch, Zanation, and Bryson were also on the research team. Dr. Patel will receive \$10,000 in funding per year for two years. He has just completed his internship in General Surgery and is now starting his two years of research.

**Michael E. Stadler, MD**, was awarded a CORE Resident Research Grant by the American Academy of Otolaryngology-Head and Neck Surgery. He will receive \$10,000 to fund his project, "Effects of TLRs 4 & 9 on an Allogenic Whole Cell GM-CSF-Secreting Tumor Vaccine."

**Paula J. Harmon, MD**, was recognized as the "Best Intern" of 2007 with the Esklund Pediatric Surgery Award, presented by the UNC Division of Pediatric Surgery, as well as the Honorary Emergency Room Resident of 2007, presented by the Department of Emergency Medicine. Dr. Harmon was also awarded two grants: a Resident Research Grant of \$11,000 by the American Academy of Otolaryngology/Head and Neck Surgery for her project titled "Viral Response to Chemotherapy in Endemic Burkitt Lymphoma," and a UNC School of Medicine Alumni Association Endowment Grant of \$5,000.

**Jeffrey B. LaCour, MD**, was inducted into Alpha Omega Alpha, the only national medical honor society in the world, whose purpose is to "recognize and perpetuate excellence in the medical profession." Each year, members of the UNC AOA chapter vote on two residents at UNC to join AOA, and our Dr. LaCour was one. Amelia F. Drake, MD, is the student advisor of the UNC AOA chapter.

Comments, suggestions, or questions about *Heads Up?* Contact Elizabeth Perry, 919-966-8926, or [eperry@med.unc.edu](mailto:eperry@med.unc.edu).

*The Department of Otolaryngology/Head and Neck Surgery is proud of its skilled faculty and staff who are committed to providing patients with the highest quality health care. Get to know us!*

#### **The Department of Otolaryngology/Head and Neck Surgery**

Harold C. Pillsbury, MD, FACS, Chair, Thomas J. Dark Distinguished Professor of Otolaryngology/Head and Neck Surgery  
William W. Shockley, MD, FACS, Vice Chair, W. Paul Biggers Distinguished Professor of Otolaryngology/Head and Neck Surgery  
Carolyn Hamby, Clinical Academic Departmental Administrator

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William W. Shockley, MD, FACS, Professor  
Carol G. Shores, MD, PhD, FACS, Associate Professor  
Marion E. Couch, MD, PhD, FACS, Associate Professor  
Xiaoying Yin, MD, Research Assistant Professor  
Andrew F. Olshan, PhD, Research Professor  
Brian K. Kanapke, Speech Pathologist

#### **The Division of Pediatric Otolaryngology**

Amelia F. Drake, MD, FACS, Professor and Chief, Newton D. Fischer Distinguished Professor of Otolaryngology/Head and Neck Surgery  
Carlton J. Zdanski, MD, FACS, Assistant Professor  
Austin S. Rose, MD, Assistant Professor

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Raymond D. Cook, MD, Assistant Professor (WakeMed ENT)

#### **The Division of Otology/Neurotology and Skull Base Surgery**

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Harold C. Pillsbury, MD, FACS, Professor  
Oliver F. Adunka, MD, Clinical Assistant Professor

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Brett E. Dorfman, MD, Assistant Professor (WakeMed ENT)  
Michael O. Ferguson, MD, Assistant Professor (WakeMed ENT, Chief)

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Mark C. Weissler, MD, FACS, Professor  
Ellen S. Markus, MA, Coordinator  
Linda F. Hube, MS, Speech Pathologist

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Marion E. Couch, MD, PhD, Associate Professor

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Jiri Prazma, MD, PhD, Professor  
Paul B. Manis, PhD, Professor  
John H. Grose, PhD, Professor  
Emily Buss, PhD, Associate Professor  
Charles C. Finley, PhD, Research Associate Professor  
Douglas C. Fitzpatrick, PhD, Research Assistant Professor  
Patricia A. Roush, AuD, Clinical Assistant Professor, Director of Pediatric Audiology

#### **The Division of Research Training and Education**

Paul B. Manis, PhD, Professor and Chief

#### **W. Paul Biggers Carolina Children's Communicative Disorders Program**

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Harold C. Pillsbury, MD, FACS, Professor, Executive Director  
Carlton J. Zdanski, MD, FACS, Assistant Professor  
Carolyn J. Brown, MS, CCC-SLP/A, Clinical Assistant Professor, Program Director  
Holly Teagle, AuD, Clinical Assistant Professor, Clinical Director

#### **Residents:**

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Joshua C. Demke, MD	W. Derek Leight, MD	Keith M. Ladner, MD	Paula J. Harmon, MD	Rupali N. Shah, MD
Jeffrey B. LaCour, MD	Allen F. Marshall, MD	Alisha N. West, MD	Michael E. Stadler, MD	Joshua B. Surowitz, MD
Steve C. Lee, MD, PhD	Trinitia Y. Cannon, MD	Deidra A. Blanks, MD	Rose J. Eapen, MD	Maher N. Younes, MD
Carlos S. Ebert, MD, MPH				Mihir R. Patel, MD

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