



The Sound of Joy

A Story 27 Years in the Making

The year was 1987. *The Princess Bride* hit the box office, stock markets around the world crashed on Black Monday and the Rock & Roll Hall of Fame inducted its first female artist, Aretha Franklin. It also marked the year that 7-year-old Nicole Burr, a kindergartner from Kalamazoo, became the first child to receive a cochlear implant in the state of Michigan.

Nicole was born with a hearing impairment that progressed to total deafness in February 1987. She recalls feelings of fear on the morning that she woke up with spontaneous hearing loss, unable to hear her mother’s voice. Nicole and her family pursued the expertise of the University of Michigan’s Cochlear Implant Program, widely-regarded as one of the foremost hearing centers in the United States. Nicole underwent rigorous medical and audiological testing to determine if she was a candidate for surgery. After approximately six months of testing, Nicole was cleared for surgery. She became Michigan’s first pediatric cochlear implant patient in December 1987.

“I will never forget the sweet sound of my parents’ voices when they first turned on my implant,” says Nicole. “It had been such a long time since I had been able to hear them.”

Nicole was fitted with a first-generation cochlear implant. The device was powered with four AA batteries, which Nicole carried in a pouch on a belt around her stomach.

IN THIS ISSUE

“It is absolutely amazing technology,” says Nicole. “It is the best thing that has ever happened to me.”

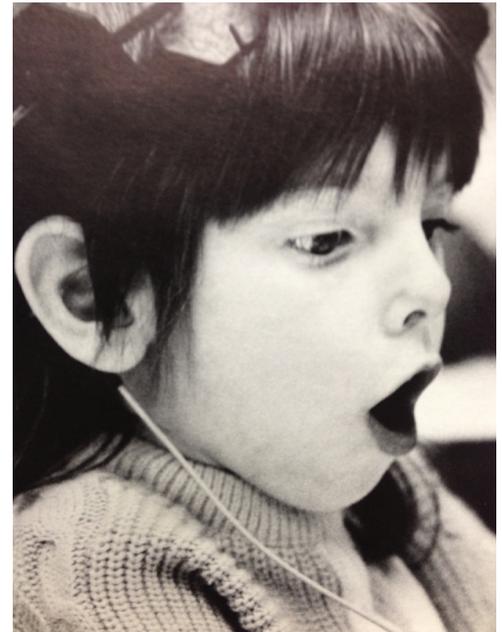
Fast forward 27 years, to January 2014. Nicole is a successful children’s case manager at North Country Community Mental Health in Petoskey. She has an associate’s degree in early childhood education, a bachelor’s degree in social work and is currently a graduate student in social work at Grand Valley State University. She is nothing short of a success story.

That’s not to say that Nicole’s success didn’t come without struggles.

“Everyone has challenges, but you can overcome them. With faith, courage and optimism, you can do anything that you set your mind to,” says Nicole.

This has been Nicole’s life motto, propelling her through elementary school, middle school, high school and eventually college. She was mainstreamed into Petoskey Public Schools in the fifth grade, where she received great support from her teachers and classmates alike. Speech therapy gave her the skills needed to maintain confident social interactions with her peers and to help her excel in school. She received all A’s and B’s during her elementary and secondary education and was frequently on the honor roll.

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Seven-year-old Nicole Burr’s cochlear implant is activated for the first time in 1988. Photo credit: *Advance* magazine, Spring 1988



Nicole Burr, today

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FROM THE CHAIR



Dear Colleagues,

Happy New Year! I hope you had a joyous and restful holiday season. Thanks to those of you who sent greeting cards and notes throughout the holidays. It is always wonderful to hear from you!

It has been an exciting time in our department. September marked the opening of our newly expanded space in the A. Alfred Taubman Health Care Center. Both the U-M Vocal Health Center and Michigan Hearing have relocated to this space. More details are provided later in this newsletter.

In addition to expanding our space, we also continue to expand our team. Kara Schwartz Leyzac, Au.D., Ph.D., joined our Division of Otolaryngology/Neurotology and the KHRI as a research audiologist faculty member in January. Andrew G. Shuman, M.D., joined our Division of Head and Neck Oncology in February. You will learn more about Drs. Leyzac and Shuman in their newsletter profiles.

Patient care remains of the utmost priority. This publication gives you an in-depth look at our Division of Otolaryngology/Neurotology. With more than 60 years combined experience, this excellent team has a long history of providing patient-centered, innovative care.

We continue to make important and significant research advancements in hearing, head and neck cancer, neurolaryngology and health services. Despite reductions in the NIH budget, we continue

to enjoy remarkable success in competing for research funding, which allows us to continue the important work of translating discoveries into treatments that improve lives.

Residency selection season is in full gear. In mid-December, we interviewed 44 candidates from amongst 410 applicants. With just four residency positions per year, the selection process is never easy. Thank you to the many faculty and staff who participated in this year's interviews. We look forward to the results of the Match in March!

It has been an exciting time not only for our department but across U-M. The entire campus has been re-energized with the launch of the largest fundraising campaign in the history of higher education called "Victors for Michigan." This \$4 billion campaign includes \$1 billion for the University of Michigan Health System. This campaign will enable our scientists to bring U-M's full scientific capacity to bear on today's most pressing health care challenges, accelerate breakthrough discoveries and translate findings into effective new clinical treatments, and fuel groundbreaking discoveries by our teams of internationally-recognized experts — yielding significant improvements in care that alleviate human suffering. Our department will play an important role in this campaign, and we would be honored to have you partner with us on this journey. For more information, please contact Amanda Thatcher, communications specialist, at 734-936-8003 or athatche@med.umich.edu.

Thank you for your continued support!

Best regards,

Carol R. Bradford, M.D., FACS
Charles J. Krause, M.D., Collegiate Professor
of Otolaryngology and Chair, Department of
Otolaryngology-Head and Neck Surgery

The Sound of Joy (cont.)

Nicole also enjoyed a supportive environment during college. She communicated regularly and openly with her instructors, who were very understanding and worked with her to meet her educational needs.

"I'm not ashamed of my hearing loss, and I'm certainly not afraid to ask for help when and where I need it," says Nicole. "I'm extremely independent, and I like to take care of myself."

Today Nicole looks forward to completing her master's degree in May 2015. Her ultimate goal is to be a motivational speaker. She has taken the first step in that direction, volunteering with Cochlear Americas. She travels the country, sharing her story and encouraging others to remain positive.

"I have had so much support in my life. I just want to give back and make a difference."

Nicole calls her hearing loss journey "The Sound of Joy" due to the great joy her cochlear implant has brought to her life. She credits her personal success to the many U-M medical providers, friends and family who have supported her along the way.

"I am forever grateful and blessed."



Nicole Burr, view of her cochlear implant

Sorting Through the Options



Ken Posner

Ken Posner has always had a love for music, so when he was faced with the very real possibility of going deaf in one ear due to his vestibular schwannoma diagnosis, he found himself distressed.

Ken's story begins in January 2009, when he experienced intermittent ringing in his right ear (tinnitus) for about a week. A sufferer of chronic migraines, Ken shared his concerns with his headache specialist in Chicago. Ken's doctor ordered an MRI, which demonstrated a small vestibular schwannoma in Ken's right internal auditory canal.

Vestibular schwannomas, also called acoustic neuromas, are benign tumors, usually slow growing, that commonly originate on the 8th cranial nerve leading from the brain to the ear. The first symptoms can include hearing loss, balance problems and tinnitus.

"The diagnosis of something growing inside my head was very troubling to me. I felt the need to learn as much as I could about my diagnosis and treatment options in order to make the best decision about how to proceed," says Ken.

Ken read everything he could about vestibular schwannomas. The more he learned, the more confused he found himself.

"I was presented with two very different options, radiation or surgery, and I had no idea which path to take. Some doctors adamantly advocated for radiation, while others rejected radiation and pushed for surgical removal. None of the doctors gave any

credibility to the other approaches," says Ken.

"An ear specialist who I knew and trusted told me that I must have the tumor surgically removed using the translabyrinthine (translab) approach," Ken says. The translab approach involves entering the auditory nerve canal through the mastoid bone behind the ear. This technique allows for complete removal of the tumor while minimizing risk of injury to the facial nerve and facial paralysis, but it always results in a complete loss of hearing in the affected ear. "The thought of being deaf in one ear terrified me."

"I also spoke with a neurosurgeon in Chicago who told me that radiation treatment was the only way to proceed, because surgery for vestibular schwannomas would soon be obsolete."

Ken only got more confused as he tried to figure out how to resolve these contradictory recommendations. On top of that, the physicians who recommended radiation couldn't tell him how much hearing loss he would suffer following treatment.

To help him make a decision, Ken looked for a surgeon who used both radiation and surgery to treat vestibular schwannomas. "I figured that a doctor who practiced both forms of treatment could tell me which was the best choice for me," says Ken. He found himself in the office of B. Gregory Thompson, M.D., a neurosurgeon at the University of Michigan Health System and a member of the UMHS multidisciplinary acoustic neuroma program.

"I'll never forget my first appointment with Dr. Thompson. He gave my wife and me his full attention," says Ken. "Although the appointment started late, Dr. Thompson did not allow this to compromise the visit. At dinner time, he received a phone call from his family. I asked if he needed to leave, and he told me no, that he wasn't leaving until he had answered all of our questions. He wasn't kidding; we were there for another hour. It meant a lot to us."

Dr. Thompson explained that the UMHS acoustic neuroma program, comprised of members from both

the Department of Neurosurgery and the Department of Otolaryngology-Head and Neck Surgery, has perfected a newer surgical technique, called the middle fossa approach, that not only removes the tumor but also gives patients the chance to preserve their hearing. Given Ken's overall good health and goal of hearing preservation, Dr. Thompson recommended he pursue this option.

Ken went on to meet with neurotologist and surgeon Steven A. Telian, M.D., to learn more about the middle fossa technique. Dr. Telian explained that by approaching the tumor from above the ear, he and Dr. Thompson would have access to remove the tumor in a way that allows preservation of the auditory and facial nerves. This approach boasts an 80 percent success rate for removing small tumors with good hearing remaining in the ear.

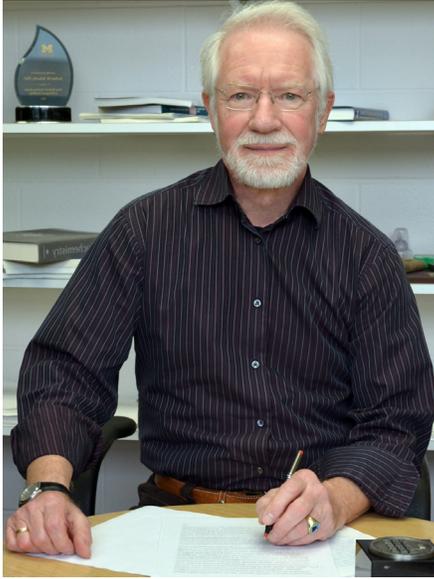
"It was actually Dr. Telian who really made the decision clear to me," says Kenneth. "I asked him how someone like me, without medical training, should go about making the decision between the risks and benefits of surgery versus the risks and benefits of radiation. He explained that with surgery, we will know the results and can manage them, whereas with radiation, it would take time to fully realize the effects of the treatment. Dr. Telian added that even if I chose radiation, he would still be my doctor and would treat any resulting hearing loss. His commitment was enough for me. I wanted to take the more definitive approach with a doctor who practiced that kind of devotion, so I decided to move forward with surgery."

In April 2009, Ken underwent a middle fossa resection of his right vestibular schwannoma with great success. Drs. Telian and Thompson were able to preserve Ken's hearing, much to his delight, and he made a splendid recovery.

Today Ken is approaching five years post-surgery and doing remarkably well. With his full hearing preserved, Ken has been able to sing in a choir. He also recently joined a community band and is playing his trumpet again for the first time since college.

"It's remarkable, really, to be able to continue to enjoy music," Ken says. "I can't thank the Michigan team enough."

News from the Kresge Hearing Research Institute (KHRI) Director



A very happy New Year, dear friends, colleagues and alumni, and let us hope that 2014 will indeed be a happy year for all of us.

The prospects for 2013 had not been very promising, as I had mentioned in my previous message. The sequester and uncertainties about the budget of the NIH, our major funding source, caused much anxiety in the scientific community. We are still not back to a stable and predictable situation, but, at least, I am glad to report that the KHRI has weathered 2013 very well, remaining creative in our research endeavors, productive in our output

of publications and still finding the time for teaching and mentoring. Your philanthropic support played a major role in keeping the KHRI at the forefront of auditory research during these tough times. A big and heartfelt, "Thank you!" to all of you who gave us a helping hand.

November brought us the tenth annual Lawrence-Hawkins Lectures, a showcase of departmental research honoring the legacy of Merle Lawrence, Ph.D., and Joseph Hawkins, Ph.D., our founding fathers. Bradford J. May, Ph.D., was our featured KHRI alumnus lecturer, currently a professor in the Department of Otolaryngology-Head and Neck Surgery at the Johns Hopkins School of Medicine with research interests that include mechanisms underlying sound localization, the role of the efferent system in hearing and noise-induced tinnitus. In his thesis work at the KHRI, he investigated auditory perception in primate models in the Behavioral Laboratory with David B. Moody, Ph.D., and William C. Stebbins, Ph.D. Dr. Stebbins, long retired, joined us for the festivities in a warm and long overdue reunion. Impressive presentations by students and fellows rounded off the day.

Let me take this opportunity to reflect a bit more on our faculty's role as teachers and

mentors. Over the fifty years of our existence, the KHRI has contributed to the education of hundreds of students and fellows, a diverse group of M.D.s and Ph.D.s originating from two dozen or so different countries with a preponderance of European and Asian visitors. In fact, one of our largest and best-organized alumni groups is located in Japan. You can find KHRI alumni in industry or teaching, although most remained in academic research or medicine careers. We are well-represented in the auditory community, and quite a few of our former fellows serve or have served as directors or chairs in basic science or otolaryngology departments. Occasions like the Lawrence-Hawkins Lectures remind us how privileged we are to be sharing and shaping the lives of so many. It is a great legacy, a wonderful opportunity and an awesome responsibility.

Again, let's look forward to a happy and healthy 2014.

Best wishes,

Jochen Schacht, Ph.D.
Director, KHRI
Professor, Department of Otolaryngology-Head and Neck Surgery, U-M Medical School

RESEARCH AWARDS, JULY-DECEMBER 2013

Anti-Cancer Benefits of Antacid Medication in Head & Neck Cancer Patients

P.I.: Silvana M. Papagerakis, M.D., M.S., Ph.D.

Sponsor: American Cancer Society Research Scholar Grant

Project Dates: 7/1/13 -6/30/17

Combined Auditory-Somatosensory Stimulation to Alleviate Tinnitus

P.I.: Susan E. Shore, Ph.D.

Sponsor: U-M Coulter Translational Research Partnership Award

Project Dates: 7/1/13-6/30/14

Effects of Carrier-Based Intralymphatic Cisplatin on Cancer Stem Cells

P.I.: Michael Sim, M.D.

Sponsor: American Academy of Otolaryngology-Head and Neck Surgery Foundation, AHNS Alando J. Ballantyne Resident Research Pilot Grant Partnership Award

Project Dates: 7/1/13-6/30/14

Genetic Analysis of Formin Proteins in Progressive Hearing Loss

P.I.: David C. Kohrman, Ph.D.

Sponsor: American Academy of Otolaryngology-Head and Neck Surgery Foundation, Knowles Hearing Center Collaborative Grant

Project Dates: 7/1/13-6/30/14

Neural Activity in Guinea Pig Vestibular Nuclei During Volitional Head Movements

P.I.: W. Michael King, Ph.D.

Sponsor: NIH R21

Project Dates: 7/1/13-6/30/14

Ototoxicity of a Common Drug Delivery Tool and FDA Orphan Drug: 2-hydroxypropyl-beta-cyclodextrin

P.I.: Scott Cronin, M.D.

Sponsor: Hearing Health Foundation

Project Dates: 7/1/13-6/30/14

KHRI Spotlight: Sensory Neurobiology Laboratory

The Sensory Neurobiology Laboratory, under the leadership of Susan E. Shore, Ph.D., has been studying the contributions of multisensory systems to auditory processing. They discovered that "touch-sensitive" neurons in the brain, which receive input from the face and head, send neural projections to the auditory system. These projections terminate in the cochlear nucleus, which receives input directly from the cochlea.

The lab has shown that these somatosensory neurons can alter the cochlear nucleus response to sound. Most remarkably, after deafness, there is a strong enhancement in somatosensory influences on the cochlear nucleus, as if in compensation for the loss of input from the cochlea. An undesirable side effect of these somatosensory inputs, which are excitatory, is the development of tinnitus, or ringing in the ear.

The lab's most recent work demonstrates that in animals with tinnitus, the major change in the cochlear nucleus was an increase in excitation from the somatosensory system (press release: <http://bit.ly/khri-tinnitus>). Work extending these findings is now focused on synaptic plasticity as an underlying



Members of the Sensory Neurobiology Lab

mechanism to explain the long-term nature of these changes. Ongoing work is laying the groundwork for treatments that include specific, patterned stimulation that may reverse the increased excitation that contributes to tinnitus (press release: <http://bit.ly/khri-tinnitus-treatment>).

Active Grants

R01 DC 04825, Function of Somatosensory Pathways to the Cochlear Nucleus (C.N.)

P.I.: Dr. Susan Shore; Sponsor: NIH

This proposal aims to determine the physiological and molecular mechanisms underlying long-term suppression and enhancement of C.N. responses by somatosensory projection neurons and their implications for tinnitus generation and modulation.

Multimodal Interactions in Brainstem Nuclei Mediate Auditory and Vestibular Dysfunction

P.I.: Dr. Susan Shore; Sponsor: U-M MCubed Program

This project explores interactions between the vestibular nucleus and the cochlear nucleus using multichannel electrophysiology and behavioral testing.

Combined Auditory Somatosensory Stimulation to Treat Tinnitus

P.I.: Dr. Susan Shore; Sponsor: U-M School of Engineering, Coulter Grant

This project explores the use of a device to treat tinnitus in animals with the goal to move this to humans in year two of the project.

Prevention and Treatment of Noise-Induced Tinnitus

P.I.: Richard A. Altschuler, Ph.D.; Sponsor: Department of Defense

A Stem Cell-Seeded Nanofibrous Scaffold for Auditory Nerve Replacement

P.I.: R. Keith Duncan, Ph.D.; Sponsor: Department of Defense

Spatial Specificity and Speech Recognition Using Primarily the Spectral Cues with Cochlear Implants

P.I.: Ning Zhou, Ph.D.

Sponsor: Hearing Health Foundation

Project Dates: 7/1/13-6/30/14

Variations in Antibiotic Usage for the Treatment of Acute Sinusitis

P.I.: Sarah Novis, M.D.

Sponsor: American Academy of Otolaryngology-Head and Neck Surgery Foundation, ARS Resident Research Grant

Project Dates: 7/1/13-6/30/14

Familial Superior Semicircular Canal Dehiscence Syndrome: Clinical and Genetic Analysis

P.I.: Katherine D. Heidenreich, M.D.

Sponsor: Michigan Institute for Clinical and Health Research Seed Grant

Project Dates: 7/15/13-7/14/14

A Bioresorbable Splint for Treating Tracheomalacia

P.I.: Glenn Green, M.D., and Scott Hollister, Ph.D.

Sponsor: NIH R21

Project Dates: 8/16/13 -7/31/15

Completely Implantable Artificial Organ of Corti (CIAO)

P.I.: Yehoash Raphael, Ph.D.

Sponsor: University of Michigan Center for Organogenesis, Organogenesis Research Team Award

Project Dates: 11/1/13-10/31/14

Safety and Efficacy of the Cochlear Nucleus CI422 Cochlear Implant in Adults

P.I.: H. Alexander Arts, M.D.

Sponsor: Cochlear Americas

Project Dates: 11/19/13-10/20/15

FACIAL PLASTIC, RECONSTRUCTIVE AND CRANIAL BASE SURGERY

- **Michael J. Brenner, M.D.**, joined the division in October. Dr. Brenner has a dual appointment to the division and to the KHRI, where he has a 75% effort working on a NIH K08 grant with Jochen Schacht, Ph.D., and Yehoash Raphael, Ph.D., as mentors.

HEAD AND NECK ONCOLOGY

- **Andrew G. Shuman, M.D.**, joined the division in February. See Dr. Shuman's profile for more information.

KHRI AND CANCER RESEARCH

- **J. Chad Brenner, Ph.D.**, joined the head and neck cancer research faculty in October as an assistant professor.
- **Sue A. Kelch** is the medical contributing editor for the *NCURA Magazine*. Sue also received the 2013 UMMS Dean's Award for Professional Staff of the Year.
- **Silvana M. Papagerakis, M.D., Ph.D.**, serves on the cancer metastasis task force committee within the Halifax Project, "Getting to Know Cancer - Mixtures of Chemicals in the Environment."
- **Yehoash Raphael, Ph.D.**, participated in the Hearing Health Foundation/Hearing Restoration Project Consortium Meeting. He also served as a reviewer for the National Institute on Deafness and Other Communications Disorders Hearing & Balance Fellowship applications in October. Dr. Raphael will participate as a member of the International Organizing Committee at the November 2014 Inner Ear Biology Workshop.
- **Susan E. Shore, Ph.D.**, was as a reviewer for the National Institute on Deafness and Other Communications Disorders Hearing & Balance Fellowship applications. She will also participate as a member of the International Organizing Committee at the International Tinnitus Meeting

in March 2014. Finally, Dr. Shore's expertise in tinnitus research was sought by our government as she testified at a Congressional Hearing on "Draft Legislation, the Long-Term Care Veterans Choice Act."

LARYNGOLOGY, RHINOLOGY AND GENERAL OTOLARYNGOLOGY (LaRGO)

- The U-M Vocal Health Center relocated to the Alfred A. Taubman Healthcare Center in September. Established in 1996, the Vocal Health Center treats the full range of vocal cord problems and vocal cord damage. For individuals with special voice demands – such as a teacher, singer, salesperson or business executive – the Center offers the Multidisciplinary Clinic for Professional and Occupational Voice Users. In addition to their medical examination, patients receive an in-depth assessment by a speech pathologist and a voice-training specialist from the University of Michigan School of Music, Theatre & Dance. The team works together in a multidisciplinary environment to develop an individualized care plan.

NEUROTOLOGY/OTOLOGY

- Over the next six months, **Alexander Arts, M.D., FACS**, will transition his practice to focus more on complex otologic and neurotologic problems in children. This will include the development of a Pediatric Hearing Loss Program, which will provide comprehensive management of hearing loss in children. He will transition more of his clinic time to the Pediatric Otolaryngology Clinic but will continue to see adult neurotologic patients. In January, Dr. Arts also began his new role as medical director of the Cochlear Implant Program and ACU medical director of the Briarwood Hearing Rehabilitation Center.
- **Kara Schwartz Leyzac, Au.D., Ph.D.**, joined the division and the KHRI as a research audiologist faculty member. See Dr. Leyzac's profile for more information.

- Michigan Hearing expanded its services into the newly-renovated space at the Taubman Center in September. Michigan Hearing provides comprehensive hearing loss services, including hearing assessment; hearing aid evaluation, dispensing, fitting and tuning; preoperative testing of hearing and facial function for adults with vestibular schwannomas/acoustic neuromas; intraoperative monitoring and hearing rehabilitation.

PEDIATRIC OTOLARYNGOLOGY

- A team of specialists in gastroenterology, otolaryngology and other subspecialties are collaborating within the new Pediatric Aerodigestive Disorders Clinic to serve the complex medical needs of children with chronic respiratory concerns who may have gastrointestinal issues causing their respiratory symptoms. The clinic provides diagnosis, treatment and long-term follow-up for children and adolescents with breathing and swallowing disorders caused by problems in the aerodigestive tract.
- **Glenn E. Green, M.D.**, and **Scott J. Hollister, Ph.D.**, received the Breakthrough Innovator Award from *Popular Mechanics* magazine and the 2013 Ann Arbor Deal of the Year Award for their work on the airway splint created using 3D printing technology.
- **Jayne A. Handelsman, Ph.D., CCC-A**, participated in the AAMC's Mid-Career Women Faculty Professional Development Seminar.
- **Marci M. Lesperance, M.D., M.S., FACS**, is the editor for the Pediatric Otolaryngology volume of the 6th edition of the *Cummings Otolaryngology-Head and Neck Surgery* textbook.
- **Marc C. Thorne, M.D., MPH**, was selected as a U-M Clinical Simulation Core (UMCSC) Faculty Member by the UMCSC Executive Committee.

Sue A. Kelch Receives U-M Medical School Dean's Award



Jochen Schacht, Ph.D., Thomas E. Carey, Ph.D., and Sue A. Kelch attend the 2013 Dean's Awards Program Ceremony.

Her colleagues marvel at her ability to administer a \$10 million research budget and to handle each grant with the same care and attention. Sue A. Kelch, recipient of the UMMS 2013 Professional Staff of the Year Award, is deserving of this honor.

In 16 years as financial manager for the Kresge Hearing Research Institute, Sue has overseen the integration of all clinical and basic research reporting and has improved internal processes with clinical and research faculty and other departments, including the Comprehensive Cancer Center, the Office of Research and Sponsored Projects and Financial Operations.

Sue is a forward thinker with a knack for forecasting. She has seamlessly managed the research office through administrative and leadership changes, including both department and institute leadership transitions, and has taken a leadership role with the National Council of University Research Administrators, including chair-elect for Region IV.

"I am surrounded by faculty and staff who fully support me and are committed to their work," says Sue. "I could not have made any accomplishments or achieved any goals on my own without their expertise and compassion."

INTRODUCING

Kara Schwartz Leyzac, Au.D., Ph.D.



Clinical Instructor, Department of Otolaryngology-Head and Neck Surgery

Dr. Leyzac joined our Division of Otology/Neurotology and the KHRI as a research audiologist faculty member in January. She joins us from Fort Belvoir Community Hospital in Virginia, where she was chief of audiology. She completed her Au.D. and Ph.D. at the University of Maryland at College Park.

In her role, Dr. Leyzac holds a 40% appointment working with cochlear implant patients at the U-M Cochlear Implant Center and a 60% appointment with the KHRI under the mentorship of Bryan E. Pfungst, Ph.D.

Specialties: audiology, cochlear implants, aging

Clinical Interests: cochlear implants, aural rehabilitation

Research Interests: outcomes with cochlear implantation in adults, aging, psychophysics

Au.D. Degree: University of Maryland College Park (2010)

Ph.D. Degree: University of Maryland College Park (2010)

Certification: American Speech-Language-Hearing Association (ASHA) Certificate of Clinical Competence in Audiology (CCC-A)

INTRODUCING

Andrew G. Shuman, M.D.



Assistant Professor, Department of Otolaryngology-Head and Neck Surgery

Core Faculty Member, U-M Center for Bioethics and Social Sciences in Medicine

Chief, ENT Section, Surgery Service, V.A. Ann Arbor Healthcare System

Dr. Shuman joined our Division of Head and Neck Surgery in February, having completed a head and neck surgical oncology fellowship at Memorial Sloan-Kettering Cancer Center and a medical ethics fellowship at Weill-Cornell Medical College.

In addition to joining our head and neck surgery division, Dr. Shuman serves as chief of our ear, nose and throat service at the V.A. Ann Arbor and as a core faculty member with the U-M Center for Bioethics and Social Sciences in Medicine.

Clinical Interests: benign and malignant tumors of the head and neck, including lesions of the mouth, pharynx, nose/sinus, larynx, salivary glands, skin and thyroid

Research Interests: ethical issues arising in the care of patients with head and neck cancer, including patient-centered decision-making, quality of life concerns and compassionate care of advanced head and neck cancers

M.D. Degree: University of Michigan (2006)

Residency: University of Michigan (2011)

Fellowship: Head and Neck Surgical Oncology, Memorial Sloan-Kettering Cancer Center (2013); Medical Ethics, Weill-Cornell Medical College (2013)

Certification: Diplomate of the American Board of Otolaryngology

Otology/Neurotology

The Division of Otology/Neurotology is comprised of clinical faculty and staff members with expertise and interest in the management of otologic and neurotologic disorders, including hearing loss, infections and injuries of the ear, tumors of the ear and lateral skull base, dizziness and balance disorders and facial nerve paralysis. The division delivers state-of-the-art patient care, provides residents and fellows with top-notch clinical training and conducts innovative research.

PATIENT CARE

The division is comprised of otologists, audiologists, hearing aid technicians, speech-language pathologists, physical therapists and a robust support staff. This dynamic team works together to detect, diagnose and rehabilitate hearing loss and related disorders.

Ear Surgery

The division's surgeons have more than 60 combined years of experience performing ear surgery. They provide the full scope of surgeries that cover any disorder of the ear, including hearing loss, perforated ear drums, chronic ear infections, surgical restoration of hearing, tumors of the ear, facial nerve paralysis, acoustic neuromas, cochlear implants and surgical treatment of vertigo (dizziness) generated by the inner ear.

Patients receive a comprehensive evaluation that includes a thorough history, a complete exam and diagnostic testing that is suitable to their condition.

Our surgeons collaborate with many other skilled groups within the university in order to provide the best care, including Michigan Hearing, the U-M Cochlear Implant Program, the Vertigo Management Program, the KHRI, the Department of Dermatology and the Department of Neurosurgery.

Michigan Hearing

Michigan Hearing's audiologists and hearing aid technicians evaluate patients of all ages with hearing loss. They provide comprehensive hearing loss services, including hearing assessment; hearing aid evaluation, dispensing, fitting and tuning; preoperative testing of hearing and facial function for adults with vestibular schwannomas/acoustic neuromas; intraoperative monitoring and hearing rehabilitation.

Unique to Michigan Hearing is the collaboration that exists between the audiologists and the rest of the experts within the Division of Otology/Neurotology. Sharing in patient care and collaborating on their hearing concerns means they can make cohesive and accurate treatment decisions.

U-M Cochlear Implant Program

The U-M Cochlear Implant Program was established in 1984 and is one of the oldest cochlear implant programs in the country. The program provides comprehensive assessments performed by audiologists and speech-language pathologists to evaluate candidacy for a cochlear implant. Cochlear implant surgery is now almost always done on an outpatient basis. After a 4- to 6-week healing period, the implant can be activated. During activation, the device is adjusted and tuned using a computer. The patient then returns one week later for further programming to monitor any changes in hearing. Monthly visits to the implant center for programming may be necessary until the patient's hearing stabilizes. The program also offers revision surgery for patients who have had unsuccessful cochlear implant surgery or whose devices have failed electronically.

Vertigo Management Program

The division's Vertigo Management Program provides comprehensive evaluation and management for patients with dizziness and balance disorders. The program's team of otologists and physical therapists have more experience than anyone else in the state and are considered national leaders in the diagnosis and treatment of dizziness and balance disorders.

In addition to this team of experts, the cutting-edge Vestibular Testing Center (VTC) houses state-of-the-art equipment that can provide important data to help formulate the correct diagnosis and treatment. Some of the specialized tests conducted in the VTC include videonystagmography, rotational chair testing and postural control testing.

Treatment varies based on the underlying cause of dizziness and can include vestibular rehabilitation therapy, dietary and behavioral modifications, medications and/or surgery.



EDUCATION

Clinical and didactic teaching of residents and medical students takes place on a daily basis. Faculty members instruct undergraduate, graduate and continuing medical education courses. The division also actively mentors residents and fellows on several research projects.

Temporal Bone Lab

One of the division's most unique teaching offerings is the temporal bone surgical dissection laboratory. The division conducts one-week courses held four times per year and attended by physicians from around the world. U-M otolaryngology residents and fellows spend one half-day per week in the lab while on the otology/neurotology service. They use this dedicated, faculty-supervised time to improve their temporal bone drilling skills, which are crucial to ear surgery. Residents also attend one of the week-long temporal bone courses during their fourth year of residency.

RESEARCH

The division routinely conducts clinical research projects and also collaborates with the KHRI, which has been part of the Department of Otolaryngology-Head and Neck Surgery for over 50 years. The KHRI is one of the world's foremost centers for advanced hearing research and consists of a dedicated group of scientists and physicians working on the basic mechanisms of hearing and balance, in health and disease. This provides the potential for scientists and practitioners to work side by side to understand and address the challenges of hearing loss and other inner ear disorders.

MEET OUR CLINICAL FACULTY



Steven A. Telian, M.D., John L. Kemink, M.D., Professor of Neurotology, Department of Otolaryngology-Head and Neck Surgery; Chief, Division of Otolaryngology/Neurotology

Clinical Interests: cochlear implants, chronic otitis media, acoustic neuromas and vestibular disorders

Research Interests: otologic clinical trials, acoustic neuroma outcomes, autoimmune inner ear disease and surgical treatment of vestibular disorders



H. Alexander Arts, M.D., FACS, Professor, Department of Otolaryngology-Head and Neck Surgery; Medical Director, U-M Cochlear Implant Program; ACU

Medical Director, U-M Hearing Rehabilitation Center

Clinical Interests: adult and pediatric otology and neurotology with special interests in cochlear implants, pediatric otology, chronic otitis media, acoustic neuromas and other cerebellopontine angle (CPA) tumors, lateral cranial base tumors and surgery, otosclerosis and stapedectomy, semicircular canal dehiscence, facial nerve disorders, congenital aural atresia, Meniere's disease, hearing maintenance/rehabilitation in neurofibromatosis, implantable hearing aids

Research Interests: cochlear implants, semicircular canal dehiscence, auditory neuropathy, acoustic neuromas



Gregory J. Basura, M.D., Ph.D.; Assistant Professor, Department of Otolaryngology-Head and Neck Surgery

Clinical Interests: full spectrum of otologic and neurotologic disorders, particular interest in skull base tumors, cochlear implantation

Research Interests: currently investigating the role of multi-sensory integration in the modulation of tinnitus percepts in brainstem and auditory cortex



Hussam K. El-Kashlan, M.D., FACS; Professor, Department of Otolaryngology-Head and Neck Surgery; ACU Medical Director, A. Alfred Taubman Healthcare Center Otolaryngology Clinic and

Vestibular Testing Center; Vice Chair, Business and Finance, Department of Otolaryngology-Head and Neck Surgery

Clinical Interests: cranial base disorders and surgery, otosclerosis, chronic ear disease, hearing loss, cochlear implants, facial nerve disorders, implantable hearing devices, Meniere's disease, acoustic neuromas and other skull base tumors

Research Interests: cochlear implant outcomes, vestibular schwannoma, auto-immune hearing loss, balance disorders



Katherine D. Heidenrieck, M.D.; Clinical Assistant Professor, Department of Otolaryngology-Head and Neck Surgery

Clinical Interests: benign paroxysmal positional vertigo, Meniere's disease, superior semicircular canal dehiscence syndrome, vestibular neuritis

Research Interests: office-based video-oculography, the cost-effective assessment of the dizzy patient, clinical outcomes related to treatment of vestibular disorders



Paul R. Kileny, Ph.D.; Professor, Department of Otolaryngology-Head and Neck Surgery; Director and Academic Program Director, Adult Audiology and

Electrophysiology, Michigan Hearing

Clinical Interests: clinical neurophysiology/neurodiagnostic testing applications for otology, audiology, head-and-neck-surgery, cochlear implants and multiple cranial nerve intraoperative monitoring; Meniere's disease; superior semicircular canal dehiscence; tinnitus; congenital temporal bone anomalies in cochlear implant candidates

Research Interests: developing novel neurodiagnostic applications for ontological

conditions, including superior semicircular canal dehiscence; predicting cochlear implant outcomes in patients with congenital temporal bone anomalies; tinnitus treatment, including electrostimulation; functional near infrared spectroscopy in patients with cochlear implants; creating systems to improve collaboration with primary care physicians to improve audiology referrals and practice management; collaborating with engineering faculty on noise reduction in military ship design



William (Mike) M. King, Ph.D.; Professor, Department of Otolaryngology-Head and Neck Surgery; Director, U-M Vestibular Testing Center

Clinical Interests: vestibular disorders, vestibular rehabilitation, concussive or noise-induced vestibular dysfunction

Research Interests: vestibular, oculomotor and cerebellar neurophysiology; single-cell recordings of vestibular neurons; vestibulo-collic reflex in normal, peripherally lesioned and genetically modified mice



Kara Schwartz Leyzac, Au.D., Ph.D.; Clinical Instructor, Department of Otolaryngology-Head and Neck Surgery

Clinical Interests: cochlear implants, aural rehabilitation

Research Interests: outcomes with cochlear implantation in adults, aging, psychophysics



Teresa A. Zwolan, Ph.D.; Professor, Department of Otolaryngology-Head and Neck Surgery; Director, U-M Cochlear Implant Program

Clinical Interests: adult and pediatric cochlear implants, audiology graduate school education

Research Interests: early implantation, speech processor mapping, implantation of the elderly

ORL ESSENTIALS BOOT CAMP



From left to right: Michael Sim, M.D.; Rebecca C. Hoesli, M.D.; and Farhan Huq participate in a peritonsillar abscess station during the 2013 ORL Essentials Boot Camp.

The department hosted its second annual simulation course, "ORL Essentials Boot Camp," in July. During this one-day course, attendees learned airway management, including intubation, tracheostomy, drainage of peritonsillar abscess, myringotomy with tube insertion, adenoidectomy and basic sinus surgery skills. They also assessed their on-call readiness and management of common ORL emergency scenarios through hands-on experience using high-technology manikins.

This was the first year the course was opened to external trainees. We welcomed residents from four states and six training programs. This was also the first time we invited guest course instructors to participate in the course. Many thanks to Elizabeth A. Blair, M.D., FACS; Paul C. Bryson, M.D., FACS; Chris McMains, M.D.; Meredith N. Merz Lind, M.D., FACS; Jay Pinto, M.D., FACS; and Gregory J. Wiet, M.D., FACS, for traveling to Ann Arbor to share their knowledge with the course participants. Their insight, along with that of our own faculty, elevated the educational experience.

The 2014 course is scheduled for July 12 in the U-M Clinical Simulation Center. Once again, we will

Many thanks to the participants and course instructors who made our 2013 simulation course a success.



welcome external trainees and course instructors to participate. For more information about the course, please contact Amanda Thatcher, communications specialist, at athatche@med.umich.edu.

LAWRENCE-HAWKINS LECTURES

The Kresge Hearing Research Institute (KHRI) hosted the 2013 Lawrence-Hawkins Lectures on Nov. 8 at the Towlsey Center. Always a testament to KHRI's exceptional trainees, the program featured presentations from more than a dozen students and fellows. We were honored to have Bradford J. May, Ph.D., from the Department of Otolaryngology-Head and Neck Surgery at Johns Hopkins Medicine join us as our Lawrence-Hawkins Guest Lecturer. Dr. May gave a wonderful presentation entitled, "Reflections on a Curriculum Vitae." It was a lovely day.



Dr. May accepts a brick from the KHRI as a thank you for his presentation during the Lawrence-Hawkins lectures.

HEAD AND NECK CANCER RESEARCH PROGRAM CELEBRATES GRADUATE STUDENTS AND POSTDOCTORAL FELLOW

The Head and Neck Cancer Research Program celebrated the accomplishments of its graduate students Heather Walline, Ph.D., Cancer Biology Program, U-M Medical School; and Mikiko Senga, Ph.D., Epidemiology Program, U-M School of Public

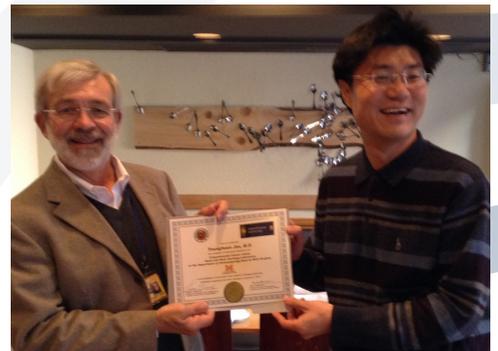
Health; as well as that of Younghoon Joo, M.D., who completed his postdoctoral fellowship in December.

Drs. Walline and Senga successfully defended their Ph.D. dissertations at the end of 2013. Both students worked with Thomas E. Carey, Ph.D. Dr. Walline's research is on HPV carcinogenesis in head and neck cancer patients, and Dr. Senga's work is on oral HPV infection and epidemiology in healthy community controls and HIV infected individuals. Dr. Walline was the first doctoral student to graduate from the Cancer Biology Program; she has started a postdoctoral fellowship with our department's J. Chad Brenner, Ph.D. Dr. Senga has been hired by the Japanese government as a representative to the World Health Organization; she began work in Switzerland in January.

Dr. Joo is an otolaryngologist, specifically a head and neck surgeon, from the Catholic University in Seoul, Korea. Dr. Joo completed an 18-month research fellowship with Mark E. Prince, M.D.; Carol R. Bradford, M.D., FACS; and Dr. Carey studying cancer stem cells and response to Wnt pathway inhibition in collaboration with Novartis.



From left to right: Dr. Senga, Dr. Carey and Dr. Walline.



Dr. Carey presents Dr. Joo with his postdoctoral fellowship certificate.

Research Fellow Explores Genetics of Deafness in Bangladesh



Farhan Huq examines a patient during his recent trip to Bangladesh.

Farhan Huq, an otolaryngology-head and neck surgery research fellow and M4, recently traveled to Bangladesh for a research project. This project is a collaborative, multi-institutional study to explore the genetics of deafness in Bangladeshi children. Here he reflects on his experience abroad and why this project matters to him.

“I have long been passionate about global health and finding a way to integrate my background as a Bangladeshi-American with my love of otolaryngology. My research project is scheduled to begin next summer at the Society for Assistance to Hearing Impaired Children (SAHIC) in Mohakhali, Dhaka, Bangladesh, which neighbors the world-famous International Centre for Diarrheal Disease where oral rehydration therapy was first pioneered.

“Luckily, I know and have worked with many Bangladeshi otolaryngologists. My mother went to medical school in Bangladesh and is now a physician here in the U.S. Through these connections,

I have facilitated collaborations between U-M and the largest preschool for deaf children in Bangladesh, the Integrated Preschool for Hearing Impaired Children (IPHSIC). The school serves children from families from different parts of the country, most of whom do not make much money – approximately the equivalent of \$100-\$200 per month.

Farhan Huq visits a classroom at the Integrated Presechool for Hearing Impaired Children (IPHSIC).



“Dr. Nurul Amin, the founder of the SAHIC, made sure that the Specialized ENT Hospital and the rest of the clinical facilities exist to complement IPHSIC. All proceeds from the hospital and the facilities, such as the operating rooms, speech therapy and audiology, go to help pay for the school. It is here that I will perform my study next summer, with the help of several M1 students during their Global REACH summer projects.

“I am excited to see the fruits of my labor first-hand. Without the phenomenal support from U-M, I would not have been able to accomplish nearly as much. My trip to Bangladesh is as much a culmination of my research background with the MSCR program as the tremendous guidance and support I’ve received from my mentors.”

Farhan blogged during his trip to Bangladesh. To read about his travels, please visit ummsbangladesh.wordpress.com.

Medical Mission Trip to Migori, Kenya



The UMHS medical mission team

In September 2013, 10 healthcare providers from the University of Michigan Health System, along with clinicians from the Henry Ford Health System, St. John Providence Health System, McLaren Healthcare and the Detroit Medical Center, traveled across the world to Migori, Kenya for a medical mission trip. This trip is one of 20 annual short-term medical mission trips sponsored by Kenya Relief.

The UMHS volunteers included: Elizabeth A. Studley, CRNA, nurse anesthetist; Sandra Coccione, CST, surgical technologist; Kathryn Trombley, CRNA, nurse anesthetist; Christine M. Messner, R.N., nurse; Gale T. Otremba, R.N., nurse; Sarah R. Walton, M.D., anesthesiologist; and Brian M. Kurtz, PharmD, pharmacist; as well as our department's Gregory J. Basura, M.D., Ph.D, otologist; and Bianca Waller, R.N., operating room scrub nurse. Their focus, along with the clinicians from the participating institutions, was on diseases of the head and neck and general surgical problems. Together, this dedicated team treated approximately 600 medical and surgical patients in just three days.

For some of the volunteers, this was their first medical mission trip.

"I always wanted to go on a trip like this, but the timing was never right," says Bianca Waller. "I finally decided to go about 8 weeks before the trip. It was one of the best decisions I have ever made."

The need for medical expertise in Kenya is great. Current technology and equipment are scarce. The

patient/physician ratio is more than 100 times greater in Kenya than the United States due to limited availability of appropriate medical education and training for Kenyans. Most of the medical experts in Kenya are centrally located in Nairobi, leaving limited access to advanced healthcare in the poorer and more rural areas of the country.

"Some of the patients we treated traveled miles and days on foot to get to us. Once they arrived at our clinic, they would then continue to wait in hot tents outside. Despite their exhaustion, they smiled," says Sandra Coccione. "Seeing their desire and commitment to receive care—it made us want to work even harder."

The typical clinic day began bright and early, with a home cooked breakfast at 6 a.m. The team would then pull together and review announcements before



Patients fill the clinic hallways as they wait to be seen.

making the five minute van ride to the clinic. All operating rooms would be in use by 8 a.m., two cases per room, and would run until at least 7 p.m. The nurses would turn over the patients as the physicians triaged them, allowing the team to complete a total of 68 surgeries. Procedures included but were not limited to thyroid goiter removal, cleft lip/palate repair, hernia repair and ear surgery.

The team faced several challenges, including intermittent power outages and even a flood in the post-anesthesia care unit.

"It's amazing what work you can do with so little," says Dr. Basura. "It was a very fluid environment, and the unexpected became the norm. But we banded together—27 individuals from different institutions and backgrounds—to do our best for the patients."

For many of the volunteers, the opportunity to interact and build relationships with the people of Kenya was invaluable.

"The Kenyan people are so resilient. They are thankful, polite and kind, despite having so little," says Sandra Coccione.

In addition to their work at the clinic, the team also enjoyed three days on safari at the Maasai Mara National Game Reserve, Africa's greatest wildlife reserve. Although the team had a great time exploring nature and indulging in the beauty of the animals, everyone agreed that the purpose of the mission is to serve those in need.

"The clinic had all of us asking ourselves, 'How can I do more? What can I do to make a difference here?'" says Dr. Kurtz.

For the UMHS volunteers, this won't be their last mission trip. All agreed that they will go on another trip.

"You don't come back from a trip like this the same as when you left," says Gale Otremba. "It changes you."

Read more about this trip in "A Mission for Medicine," a feature article in the February 2014 issue of *Hour Detroit* magazine.

www.hourdetroit.com/Hour-Detroit/February-2014/A-Mission-for-Medicine/

Hope for Hearing: Hearing Aid Recycling Program



Since 2010, the Department of Otolaryngology-Head and Neck Surgery has provided subspecialty services for the underprivileged of Washtenaw County in partnership with the Hope Clinic through the Hope@UMHS Clinic. A significant number of these patients suffer with hearing loss and could benefit from a hearing aid. Unfortunately, the high cost of hearing aids makes them an unreachable luxury for Hope@UMHS clinic patients.

In an effort to meet the needs of these patients, we established the Hope for Hearing hearing aid recycling program. This program allows us to collect gently used hearing aids and refurbish them for distribution to our Hope@UMHS patients.

How it Works

The Hope for Hearing program accepts hearing aids of any make or model, regardless of age. Behind-the-ear hearing aids in working condition are cleaned, refurbished and refitted for Hope@UMHS patients. Custom, in-the-ear hearing aids, as well

as hearing aids that are beyond repair, are donated to the Hear Now program at the Starkey Hearing Foundation.

Tax Benefits

All hearing aid donations are tax deductible. Donors receive a letter of acknowledgement which can be used for tax purposes.

Make a Donation

If you don't have a hearing aid to recycle but would still like to donate to the Hope for Hearing hearing aid recycling program, financial gifts are welcome. For more information about how to donate, please e-mail hopeforhearing@umich.edu.

Be a Victor for Michigan

Philanthropy is a vital resource that allows the Department of Otolaryngology-Head and Neck Surgery to do more teaching and learning and to transfer ground-breaking research into life-saving clinical applications. We rely on private support to help us with this vital work. If you would like to make a gift online or learn about the many opportunities for giving, please visit www.med.umich.edu/oto/giving/.

You may also contact:

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Thank you for your confidence in us and for supporting our work. There is no more gratifying gift than one that improves the health and health care of our patients.



Transforming Knowledge Into Impact



Meredith E. Adams, M.D., has always had a curiosity for how things work. During high school, she became captivated by cellular biology and neuroscience. “I love to learn about any topic in great depth.”

Dr. Adams' two older brothers graduated from medical school here at U-M. Through them, she realized there was great joy to be found in serving other people. “I enjoy collaborating to solve problems, but I especially enjoy teaching others what I have learned.” With encouragement from her family and teachers, Dr. Adams considered a career in medicine. She enrolled in U-M's eight-year Inteflex program, which integrated pre-medical and medical curriculum.

“I received an outstanding medical education at Michigan. I had rich opportunities to interact and engage with experts, many of whom continue to be my mentors even though I have gone on to specialize in a field other than their own.”

In her early years of medical school, Dr. Adams was looking for a summer research position when a resident in otolaryngology suggested a contact with a track record for student research mentorship. “That contact turned out to be Dr. Carol Bradford.” Dr. Adams went on to work with Dr. Bradford for the duration of medical school. “Dr. Bradford was a great role model; she balanced surgical practice with scientific investigation. She had an immense impact on my decision to go into otolaryngology.”

Dr. Adams continued to build upon her academic career, accepting an otolaryngology residency here at U-M. “No other program I visited came close. Michigan offered comprehensive clinical training and research mentorship and had no shortage of strong female surgeons to serve as role models.”

Dr. Adams also completed her neurotology fellowship here at U-M. She attributes her specialty decision

to the clinical mentorship of Drs. Telian, Arts and El-Kashlan. “I observed that they had outstanding outcomes in skull base and otologic surgery, and I wanted to keep learning from them. The neurotology program is exceptionally well-balanced. My years as a fellow were among my most enjoyable at Michigan. It felt as though the whole care team were committed to my education.”

Following fellowship, Dr. Adams accepted a faculty position at the University of Minnesota, where she has an active clinical practice and teaches within the university's otolaryngology residency and neurotology fellowship programs. This year, she will complete her masters in clinical research at the University of Minnesota's School of Public Health. “The knowledge I have gained allows me to study vestibular diagnostics and treatment from a health services and epidemiologic perspective.” The highlight of Dr. Adams' career thus far is the thorough joy she feels in performing ear and skull base surgery. “It still amazes me that I get to work in such a fascinating field.”

In her spare time, Dr. Adams enjoys skiing and kayaking, as well as canoeing in the Minnesota lakes.

From Student to Teacher



Brandon Isaacson, M.D., FACS, has been interested in science from a young age. “Early in childhood, I had exposure to what it would be like to be a physician.” Both Dr. Isaacson's father and grandfather were physicians in his home town of Savannah, Georgia. “My family would run into my father's patients frequently; they were always so appreciative of him.”

Following college, Dr. Isaacson went on to pursue his medical degree at the Medical College of Georgia. “I felt privileged. I was in awe of many of my classmates who came from some of the top

undergraduate programs in the country.” As a first-year student, Dr. Isaacson was fascinated with the head and neck anatomy portion of his gross anatomy course. Initially interested in neurosurgery, it was not until after his rotation on otolaryngology that he realized he wanted to pursue otolaryngology as a career. “As a senior medical student, I was fortunate to meet Dr. Malcolm Graham who began the Georgia Ear Institute in Savannah. He encouraged me to take a temporal bone course, which strengthened my interest in otology.”

Coming from a medical school with a small otolaryngology program, Dr. Isaacson believed his chances of matching into U-M's residency program were slim. He was shocked to match here. “I vividly remember having been impressed with the faculty, residents and facilities during my interview. I knew U-M had a reputation of having outstanding clinical training and department chairs. Needless to say, I felt fortunate.” Dr. Isaacson appreciates the generous time and effort the faculty spent on his training.

“The faculty at U-M were amazing role models and educators. I strive to emulate them in my interactions with residents, today.”

Dr. Isaacson completed his neurotology fellowship at the Baylor College of Medicine in Houston, Texas. “I completed a number of clinical otology projects during my residency, which reaffirmed my decision to apply for fellowship.” He attributes the fostering of his interest in neurotology to Drs. Telian, Arts and El-Kashlan.

Dr. Isaacson went on to serve as a faculty member in the Department of Otolaryngology at the UT-Southwestern Medical Center. “I currently serve as the co-director for our Comprehensive Skull Base Program.” The highlight of Dr. Isaacson's career thus far is having received his department's Chief Resident Teaching Award, twice since 2006.

In his spare time, Dr. Isaacson enjoys reading, watching movies and traveling as well as spending time with his family.



Ken Anderson, M.D., is proud to announce that the Anderson Hair Sciences and Research Center in Atlanta, Georgia is the first and only practice in Georgia to offer patients the ARTAS Robotic Hair Restoration Surgery System.



Nancy Appelblatt, M.D., FACS, FAASM, was appointed chief of staff at Mercy General Hospital effective January 2014.



Fred L. Daniel, M.D., FACS, received The Lester Brown Award from the Georgia Society of Otolaryngology-Head and Neck Surgery. This award is presented to a physician who has been

nominated by his or her peers, has been practicing in Georgia for at least 20 years and has made outstanding contributions to the field of otolaryngology-head and neck surgery in Georgia.



Paul T. Hoff, M.D., FACS, is collaborating on studies with Matthew E. Spector, M.D., to examine the efficacy of transoral robotic surgery (TORS) for sleep apnea. Drs.

Hoff and Spector have also collaborated to examine the efficacy of TORS for obstructive sleep apnea. This work has given them the opportunity to work with the makers of the Da Vinci robot to gain FDA approval of TORS for the removal of benign tissue from the pharynx. Finally, they have initiated collaboration with Thomas E. Carey, Ph.D., to look at the role of HPV in benign lingual tonsil tissue.

Save the Date!

2014 Michigan Work Society Meeting to be Held at the Big House

Mark your calendar for the 2014 Michigan Work Society Meeting, scheduled for Thursday through Saturday, October 9-11, 2014 at the Big House and other great U-M facilities! Reconnect with colleagues and friends while getting up close and personal with arguably the best football stadium in the country. The festivities will include a stadium tour, photo opportunities, professional lectures, a gala dinner, a golf outing and the U-M vs. Penn State football game. Event information and registration details will be announced within the next few months. You don't want to miss this exciting event!

For more information about the Michigan Work Society Meeting and other events, please contact Amanda Thatcher, communications specialist, at (734) 936-8003 or athatche@med.umich.edu.

2014 EVENT CALENDAR

Spring Fling

March 15, Ann Arbor, MI

World Voice Day Concert

April 16, Ann Arbor, MI

19th Annual Free Throat Screening Clinic

April 26, Ann Arbor, MI

COSM Spring Meetings

May 14-18, Las Vegas, NV

Triological Society's 117th Annual Meeting at COSM

May 15-16, Las Vegas, NV

14th Annual Charles J. Krause, M.D., Lectureship and Residency/ Fellowship Graduation

June 20, Ann Arbor, MI

ORL Essentials Boot Camp

July 12, Ann Arbor, MI

2014 AHNS Annual Meeting

July 26-30, New York, NY

2014 Annual Meeting & OTO EXPO

Sept. 21-24, Orlando, FL

2014 Michigan Work Society Meeting

Oct. 9-11, Ann Arbor, MI

Society of University Otolaryngologists

Nov. 7-9, Chicago, IL

State of the Department Address and Retreat

Nov. 14, Ann Arbor, MI



University of Michigan Department of Otolaryngology-Head and Neck Surgery Faculty

Carol R. Bradford, M.D., FACS, Department Chair

FACIAL PLASTIC AND RECONSTRUCTIVE SURGERY/CRANIAL BASE SURGERY

Jeffrey S. Moyer, M.D., FACS,
Division Chief
Shan R. Baker, M.D., FACS
Jennifer C. Kim, M.D.
Lawrence J. Marentette, M.D., FACS
Erin L. McKean, M.D., MBA, FACS

HEAD AND NECK ONCOLOGY

Mark E. Prince, M.D., Division Chief
Carol R. Bradford, M.D., FACS
Douglas B. Chepeha, M.D., MSPH,
FACS
Kelly M. Malloy, M.D., FACS
Scott A. McLean, M.D., Ph.D., FACS
Andrew G. Shuman, M.D.
Matthew E. Spector, M.D.
Gregory T. Wolf, M.D., FACS*

LARYNGOLOGY, RHINOLOGY AND GENERAL OTOLARYNGOLOGY (LaRGO)

Norman D. Hogikyan, M.D., FACS,
Division Chief
Melissa A. Pynnonen, M.D.
Jeffrey J. Stanley, M.D.
Jeffrey E. Terrell, M.D.
Mark A. Zacharek, M.D., FACS

OTOLOGY/ NEUROTOLOGY

Steven A. Telian, M.D., Division
Chief
H. Alexander Arts, M.D., FACS
Gregory J. Basura, M.D., Ph.D.
Hussam K. El-Kashlan, M.D., FACS
Katherine D. Heidenreich, M.D.
Paul R. Kileny, Ph.D.
William M. King, Ph.D.
Kara Leyzac, Au.D., Ph.D.
Teresa A. Zwolan, Ph.D.

PEDIATRIC OTOLARYNGOLOGY

Marci M. Lesperance, M.D., M.S.,
FACS, Division Chief
David J. Brown, M.D.
Susan L. Garetz, M.D.
Glenn E. Green, M.D.
Jaynee H. Handelsman, Ph.D.
Charles F. Koopmann, Jr., M.D.,
MHSA, FACS
Peter P. Passamani, M.D., FACS
Marc C. Thorne, M.D., MPH

KRESGE HEARING RESEARCH INSTITUTE

Jochen Schacht, Ph.D., Director
Thomas E. Carey, Ph.D.
Richard A. Altschuler, Ph.D.
Sanford C. Bledsoe, Jr., Ph.D.*
David F. Dolan, Ph.D.*
R. Keith Duncan, Ph.D.
Glenn E. Green, M.D.
W. Michael King, Ph.D.
David C. Kohrman, Ph.D.
Marci M. Lesperance, M.D., FACS
Josef M. Miller, Ph.D.*
Silvana M. Papagerakis, Ph.D.
Bryan E. Pfungst, Ph.D.
Yehoash Raphael, Ph.D.
Susan E. Shore, Ph.D.

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