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inVIsion

A PUBLICATION OF THE DEAN MCGEE EYE INSTITUTE

patient care
education
vision research
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service

DMEI clinical directory

Oklahoma Health Center

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Rhea L. Siatkowski, MD

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Gregory L. Skuta, MD

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Sam S. Dahr, MD
Alexander Davis, MD, PhD
Garett S. Frank, MD

McGee Eye Surgery Center (MESc)

Harold Hamm Diabetes Center ■ 1000 N. Lincoln Blvd., Suite 150 ■ Oklahoma City, OK 73104

(405) 271-3363 ■ Medical Director: Robert J. Christensen, MD

Dean McGee Eye Institute Satellite Locations

EDMOND

1005 Medical Park Blvd., 73013

(405) 271-0913

Comprehensive Ophthalmology/Ophthalmic Surgery

John M. Bell, MD

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Anil D. Patel, MD

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Maria E. Lim, MD

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Dean McGee Eye Institute

Home to the Department of Ophthalmology of the University of Oklahoma College of Medicine

DMEI President and CEO
Edward L. Gaylord Professor and Chair
Regents' Professor
Department of Ophthalmology
University of Oklahoma
Gregory L. Skuta, MD

DMEI Executive Vice President and Chief Operations Officer
Administrator, Department of Ophthalmology
Garyl G. Geist, MAcc

DMEI Vice President of Finance and Chief Financial Officer
Kimberly A. Howard

DMEI Executive Director of Development
Jim Durbin

Editor
Gregory L. Skuta, MD

Co-Editor
Nicole M. Glenn

Contributors
Jim Durbin
Melody A. Marcum, MHR
April Wilkerson

Feature Writer
April Wilkerson

Design and Layout
Christi Cooper, Funnel Design Group

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For more information about this publication or to be placed on the mailing list, please contact:
Development Office
Dean McGee Eye Institute
608 Stanton L. Young Blvd., Suite 346
Oklahoma City, OK 73104
(405) 271-7801

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dmei.org/publications

The Dean McGee Eye Institute is dedicated to serving all Oklahomans and the global community through excellence and leadership in patient care, education, and vision research.



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• DMEI • inVision

SUMMER 2017

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Combining Outstanding Doctors, WORLD-CLASS CARE & CUTTING-EDGE TECHNIQUES



Gregory L. Skuta, MD

IT HAS BEEN AND CONTINUES TO BE THE DEAN MCGEE EYE INSTITUTE'S (DMEI'S) STRATEGIC OBJECTIVE TO RECRUIT OUTSTANDING DOCTORS

to provide world-class clinical and surgical care and for our surgeons to offer a broad spectrum of the most current and cutting-edge surgical techniques. As shared in this edition of *InVision*, we are very proud of the fact that 22 of our 27 ophthalmologists (81%) at the time of this writing are listed among the *Best Doctors in America* (19), *Castle Connolly Top Doctors* (17), or both (14). Such recognition (see page 9) often takes at least five to ten years to achieve

(if ever), and it is noteworthy that 100% of the ophthalmologists recruited to DMEI before the year 2013 have been honored through one or both of these mechanisms.

The *Best Doctors in America* are selected as being physicians from whom their peers “would seek care for themselves and loved ones.” This peer-based “seal of approval” is extended to only about 4% of the physicians in the United States. For DMEI ophthalmologists, this figure is an astounding 70%! Such quality helps ensure that we are fulfilling our commitment to excellence in patient care.

As noted on page 4, two more ophthalmologists are joining us in August. As the Oklahoma City Clinic focuses on the provision of primary care, Dr. John Bell, an ophthalmologist with the clinic since 1991 and president of that organization since 2002, will move his practice “across the parking lot” to DMEI. A former chair of the University of Oklahoma (OU) Board of Regents and the OU College of Medicine Alumni Association’s 2017 Physician of the Year – Private Practice, Dr. Bell will help expand DMEI’s comprehensive ophthalmology services. In the subspecialty area of pediatric ophthalmology and strabismus, Dr. Maria Lim, who just completed a prestigious fellowship at Duke University Eye Center, also will become a member of the DMEI faculty.

The feature story (pages 46-51) and other sections in this edition (e.g., pages 11-13)

highlight several special surgical offerings at DMEI. During fiscal year 2017 at the McGee Eye Surgery Center, more than 4,900 cataract procedures were performed by our multiple cataract surgeons. These surgeons had access to the latest technology for cataract removal in addition to cutting edge options such as the femtosecond laser for laser-assisted cataract surgery; ORA VerifEye technology for refinement of intraocular lens calculations; and premium intraocular lenses to help provide both distance and near vision or correction of astigmatism.

Refractive surgery also is readily available at the Institute and includes LASIK surgery and the new Raindrop Near Vision Inlay procedure, which helps correct near vision for individuals who are developing presbyopia. Presbyopia refers to the difficulty with focusing at near that often begins to afflict people as they enter their 40s. The availability of the Raindrop technology was made possible by the acquisition of a special femtosecond laser in DMEI's state-of-the-art Stephenson Refractive Surgery/Laser Center.

As described in our featured alumnus story on pages 34 and 35, Dr. Mark Terry, a former DMEI cornea fellow and faculty member, helped create new techniques in corneal transplant surgery, which our corneal surgeons now perform on a regular basis. However, a non-incisional procedure known as corneal cross-linking is now approved by the Food and Drug Administration (FDA) for the treatment of keratoconus, a condition characterized by warpage of the cornea (the clear front structure

of the eye). We are thrilled to be able to offer this treatment to our patients.

Advances in minimally invasive glaucoma surgery allow DMEI glaucoma surgeons to better individualize the surgical treatment of glaucoma. Please see pages 11 and 12 for more information on such procedures as ab interno canaloplasty and CyPass.

We are deeply grateful for DMEI surgeons who are leaders in their fields and who commit themselves to providing the very best possible surgical care for their patients. We also greatly appreciate donors who have recognized the

importance of keeping DMEI and Oklahoma in the forefront and have made the acquisition of new surgical microscopes, femtosecond laser technology, corneal cross-linking, and other new techniques a reality. Ultimately, it is about Oklahomans helping other Oklahomans (and the world), and we pledge to continue the pursuit of that essential element of the Dean McGee Eye Institute's noble mission.

Such quality helps ensure that we are fulfilling our commitment to excellence in patient care.



Gregory L. Skuta, MD
President and Chief Executive Officer
Dean McGee Eye Institute
Edward L. Gaylord Professor and Chair
Regents' Professor
Department of Ophthalmology
University of Oklahoma College of Medicine

WE WELCOME DRs. BELL AND LIM TO THE FACULTY AT THE DEAN MCGEE EYE INSTITUTE!

NEW COMPREHENSIVE OPHTHALMOLOGY FACULTY MEMBER



JOHN M. BELL, MD joined the Dean McGee Eye Institute/University of Oklahoma (OU) Department of Ophthalmology on August 7. A native of Oklahoma, Dr. Bell is a graduate of Norman High School and earned his

undergraduate (with Highest Honors, Phi Beta Kappa) and medical (with Distinction, Alpha Omega Alpha Honor Medical Society) degrees from OU. He completed his internship at the OU Health Sciences Center and his ophthalmology residency at Scott and White in Temple, Texas. He joined the Oklahoma City Clinic in 1991 and has served as president of the clinic since 2002. He has been a friend of the Dean McGee Eye Institute and its physicians throughout his career and has been performing cataract surgery at the McGee Eye Surgery Center on a regular basis since December 2015.

Dr. Bell has assembled a remarkable record of leadership and service and has served as president of the Oklahoma Academy of Ophthalmology and as chair of the OU Board of Regents. He is currently on the Board of Trustees of the Sarkeys Foundation and served last year as its president. He was on the Board of Trustees of the OU College of Medicine Alumni Association from 2002 to 2015.

In April 2017, Dr. Bell was recognized as Physician of the Year—Private Practice by the OU

College of Medicine Alumni Association. He also is a past recipient of the Excellence in Attending Award at the Oklahoma City Veterans Affairs Medical Center from DMEI residents.

Dr. Bell will be seeing patients in the Oklahoma Health Center location and also in DMEI's Edmond facility.

NEW PEDIATRIC OPHTHALMOLOGY FACULTY MEMBER

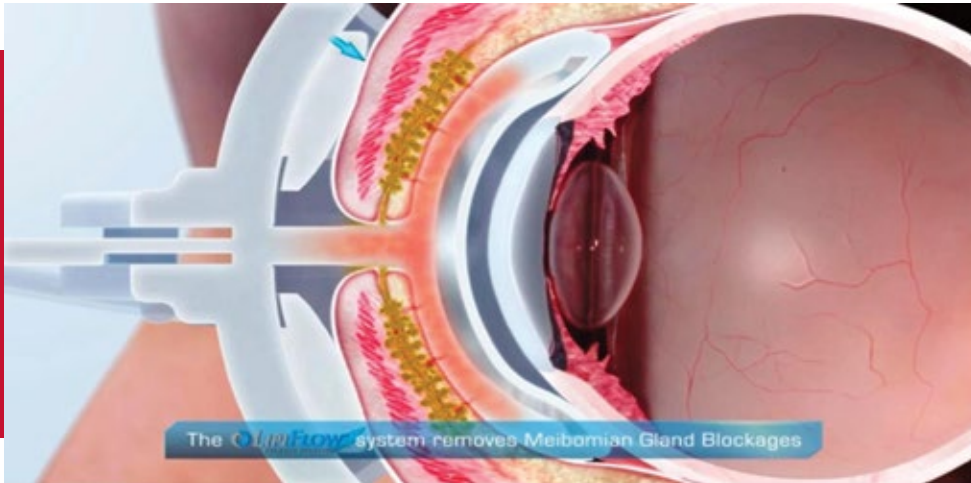


MARIA E. LIM, MD will join the Dean McGee Eye Institute/OU Department of Ophthalmology's Pediatric Ophthalmology and Strabismus Service on August 21. Dr. Lim earned her undergraduate degree (summa cum laude) from the University of Akron

(Ohio) and her medical degree (Alpha Omega Alpha Honor Medical Society) from Northeast Ohio Medical University. She completed her internship at Summa Health Systems in Akron and her residency in ophthalmology at Indiana University in Indianapolis. Dr. Lim recently completed a prestigious two-year clinical and research fellowship in pediatric ophthalmology and strabismus at Duke University Eye Center in Durham, North Carolina.

Dr. Lim will be seeing patients at the Oklahoma Health Center and Edmond facilities and also at The Children's Hospital at OU Medical Center. ■

LipiFlow® Dry Eye Treatment



MEIBOMIAN GLAND DYSFUNCTION (MGD) IS THOUGHT TO BE THE LEADING CAUSE OF DRY EYE DISEASE. MGD occurs when the meibomian glands in the upper and lower eyelids do not secrete enough oil when you blink. This lack of oil causes the normal tear layer on the eye to evaporate too quickly, leaving the eyes dry and easily irritated.

LipiFlow® is an FDA-approved treatment available at the Dean McGee Eye Institute for patients with MGD. LipiFlow® treats MGD by warming and massaging the inside of the eyelids to restore healthy oil production.

12 Minutes for up to 12 Months of Relief

Patients are evaluated to determine whether they suffer from MGD using LipiView®, an imaging device specifically designed to view the meibomian glands. If it is determined that a patient is a candidate for LipiFlow®, treatment can be administered the very same day. Treatment takes approximately 12 minutes per eye and provides relief that can last up to 12 months.

LipiView® and LipiFlow® are out-of-pocket expenses not covered by Medicare or other insurance plans.

To schedule an evaluation, call 405.271.1090 ■

U.S. NEWS AND WORLD REPORT 2017-2018 SURVEY

The Dean McGee Eye Institute was ranked 8TH IN THE NATION AMONG ACADEMIC EYE CENTERS AFFILIATED WITH A PUBLIC UNIVERSITY and 22nd overall.

Legislative Visits

ON MARCH 6 AND 7 AND MAY 2, Oklahoma State Representatives and State Senators toured the Dean McGee Eye Institute. These visits are coordinated to assist state legislators in learning about the mission of the Eye Institute and its vital services to their constituents and all Oklahomans.



Pictured (left to right): Jim Durbin - Executive Director of Development at DMEI, Dr. Gregory Skuta - DMEI President and CEO, Senator Lonnie Paxton - District 23, Senator Adam Pugh - District 41, Senator Greg McCartney - District 13, and Garyl Geist - DMEI Executive Vice President and Chief Operations Officer.



Pictured (left to right): Jim Durbin - Executive Director of Development at DMEI, Garyl Geist - DMEI Executive Vice President and Chief Operations Officer, Dr. Gregory Skuta - DMEI President and CEO, Cynthia Bradford, MD - President of the American Academy of Ophthalmology and Professor of Ophthalmology at DMEI, Charles McCall - Speaker of the Oklahoma House of Representatives - District 22, and David Rainbolt - DMEI Board of Trustees Chair.



Pictured (back, left to right): Jim Durbin - Executive Director of Development at DMEI, Garyl Geist - DMEI Executive Vice President and Chief Operations Officer, Representative Josh West - District 5, and Dr. Gregory Skuta - DMEI President and CEO; (front, left to right): Representative Jason Dunnington - District 88, Representative Marcus McEntire - District 50, Representative Carol Bush - District 70, and Representative Kevin McDugle - District 12.

Legislative Update

EARLY EYE DROP REFILL BILL BECOMES LAW

House Bill (HB) 1819, presented by State Representative Carl Newton, OD and State Senator Stephanie Bice, passed the Oklahoma State Senate 36 - 4 on April 5. It had previously passed the Oklahoma House of Representatives 92 - 0 on March 7. The bill prohibits an insurance company from denying refill requests for eye drops after reaching 70% of the prescription's period (e.g., 21 days of a 30-day prescription). This is wonderful news for patients who have trouble giving drops to themselves or parents administering drops to children. State societies for ophthalmology and optometry worked in cooperation with the Oklahoma State Medical Association and the Oklahoma Osteopathic Association on this effort. The bill was signed into law by Governor Mary Fallin on April 11. ■



Pictured with State Representative Carl Newton, OD (center) are Amalia Miranda, MD (left) and Gregory Skuta, MD (right).

R. MICHAEL SIATKOWSKI, MD AWARDED David Ross Boyd Professorship

PROVOST JASON R. SANDERS, MD, MBA ANNOUNCED ON APRIL 24 THAT

R. Michael Siatkowski, MD has been awarded a University of Oklahoma (OU) David Ross Boyd Professorship. The announcement was made during the OU Health Sciences Center Spring Faculty Awards Ceremony. Dr. Siatkowski is the first ophthalmologist to receive a David Ross Boyd Professorship, which is named for the first president of OU and is awarded to a faculty member who has consistently demonstrated outstanding teaching, guidance, and leadership for students (including residents) in an academic discipline or in an interdisciplinary program within the University.

Gregory L. Skuta, MD, Dean McGee Eye Institute (DMEI) President and Chief Executive Officer and Edward L. Gaylord Professor and Chair of the OU Department of Ophthalmology, said, “Dr. Siatkowski fulfills these criteria perfectly and makes us very proud to count him as a friend and colleague. We are extremely grateful for Mike’s extensive contributions to the success of the Institute and Department, especially as an educator and mentor.”

A medical graduate of Thomas Jefferson University (with Distinction and Alpha Omega Alpha Honor Medical Society) in Philadelphia, Dr. Siatkowski completed his residency training at St. Francis Medical Center in Pittsburgh and his fellowship training at the Bascom Palmer Eye Institute (BPEI) in Miami. He served on the BPEI faculty for six years before joining



R. Michael Siatkowski, MD (right) is awarded a David Ross Boyd Professorship by Jason R. Sanders, MD, MBA (left), Senior Vice President and Provost of the OU Health Sciences Center.

DMEI in 1999. At DMEI, Dr. Siatkowski is the David W. Parke II, MD Professor of Ophthalmology, Vice Chair for Academic Affairs, Residency Program Director, and a past Presidential Professor. He is also vice president of the American Association for Pediatric Ophthalmology and Strabismus and president-elect of the Program Directors Council of the Association of University Professors of Ophthalmology. In addition, Dr. Siatkowski is an emeritus director of the American Board of Ophthalmology, past president of the Christian Ophthalmology Society, and past vice chair of the Residency Review Committee for Ophthalmology for the Accreditation Council for Graduate Medical Education. He has received at least seven major teaching awards, published over 100 peer-reviewed articles, and delivered numerous lectures throughout the world. ■

GREGORY L. SKUTA, MD RECEIVES REGENTS' PROFESSORSHIP



Gregory L. Skuta, MD (left) is awarded a Regents' Professorship by Clay Bennett (right), Chair of the OU Board of Regents.

ALSO ON APRIL 24, THE CHAIR OF THE OU BOARD OF REGENTS,

Clay Bennett, presented Dr. Gregory L. Skuta with a Regents' Professorship, which is awarded to a faculty member who has rendered outstanding service to the University, to the academic community, or to an academic or professional discipline through extraordinary achievement in academic administration or professional service. The late Dr. Hal Balyeat is the only other ophthalmologist to have been named a Regents' Professor, achieving this distinction in 1999.

In addition to his leadership roles at the Dean McGee Eye Institute, Dr. Skuta has served as president of the American Academy of Ophthalmology (AAO), American Glaucoma Society, and American Eye Study Club; as a director of the American Board of Ophthalmology; and as a member of the Board of Governors of the World Glaucoma Association. He has received a Life Achievement Honor Award from the AAO and currently serves on the Board of Directors of the Ophthalmic Mutual Insurance Company and the National Alliance for Eye and Vision Research. ■

22 DMEI OPHTHALMOLOGISTS RECOGNIZED AS *BEST DOCTORS IN AMERICA AND/OR CASTLE CONNOLLY TOP DOCTORS*

- *+ Cynthia A. Bradford, MD
 - *+ Reagan H. Bradford Jr., MD
 - *+ Bradley K. Farris, MD
 - *+ Stephen R. Fransen, MD
 - *+ Layne E. Goetzinger, MD
 - + Jean R. Hausheer, MD, FACS
 - * Ralph B. Hester III, MD
 - *+ David W. Jackson, MD
 - *+ Mahmoud A. Khaimi, MD
 - * Ronald M. Kingsley, MD
 - * Robert E. Leonard II, MD
 - * Annie Moreau, MD, FACS
 - *+ Rebecca K. Morgan, MD
 - *+ Anil D. Patel, MD
 - *+ Steven R. Sarkisian Jr., MD
 - * Vinay A. Shah, MD
 - *+ R. Michael Siatkowski, MD
 - *+ Rhea L. Siatkowski, MD
 - *+ Gregory L. Skuta, MD
 - + Ann A. Warn, MD, MBA
 - + Deana S. Watts, MD
 - *+ Tammy L. Yanovitch, MD, MHSc
- * *Best Doctors in America*
+ *Castle Connolly Top Doctors*
*+ *Both*

DR. KHAIMI NAMED 2017 INNOVATOR OF THE YEAR



MAHMOUD A. KHAIMI, MD was honored as *The Journal Record's* 2017 Innovator of the Year on August 17. Dr. Khaimi is being recognized for the innovative glaucoma surgery, ab-interno canaloplasty (ABiC™), which he developed at the Dean McGee Eye Institute (see page 11).

“We are especially excited this year to celebrate the program’s twentieth year of honoring business innovation,” said Ted Streuli, Associate Publisher and Editor of *The Journal Record*. “It’s always entertaining to see the broad range of innovations, ranging over the years from wacky bands for kids to self-powered office buildings. The creative, innovative minds behind such ideas are what move Oklahoma forward.”

The overall Innovator of the Year recipient was announced at a luncheon honoring the 20 finalists on Thursday, August 17 (as this edition of *DMEI InVision* was going to press) at the Embassy Suites, Oklahoma City Downtown/Medical Center. We congratulate Dr. Khaimi on this truly extraordinary recognition!

2017 INNOVATOR OF THE YEAR HONOREES

- Agric-Bioformatics, Oklahoma City.
- Datebox, Oklahoma City.
- **Dean McGee Eye Institute – Mahmoud A. Khaimi, MD, Oklahoma City.**
- Digital Six Laboratories LLC, Oklahoma City.
- Draft2Digital, Oklahoma City.
- Drakewell, Oklahoma City.
- EdBooks LLC, Oklahoma City.
- Espresso LLC, Oklahoma City.
- Exaptive Inc., Oklahoma City.
- Fast Inc. Network, Edmond.
- Francis Tuttle Technology Center, Oklahoma City.
- GradeScale LLC, Edmond.
- LevelOps, Oklahoma City.
- LifeSquire, Oklahoma City.
- Lynn Institute for Healthcare Research Inc., Oklahoma City.
- Martin Bionics, Oklahoma City.
- MetKnow, Tulsa.
- The Ninety10 Foundation, Edmond.
- Scissortail Data LLC, Norman.
- YukBGone, Stillwater.



AAO Mid-Year Forum

Pictured (left to right): Reagan Bradford Jr., MD, Joshua Hendrix, MD, Andrew Melson, MD, Gregory Skuta, MD, Amalia Miranda, MD, David Parke II, MD, Cynthia Bradford, MD, and Ann Warn, MD, MBA are shown standing in front of the US Capitol during the American Academy of Ophthalmology’s (AAO’s) Mid-Year Forum held in April in Washington, DC. All in this distinguished group have a close connection with the Dean McGee Eye Institute (DMEI). Four currently serve as faculty, two are former faculty members, five are current or past residents, and one (Dr. Parke) is a former DMEI president and CEO and the current CEO of the AAO. Dr. Cynthia Bradford is serving as the Academy’s president in 2017.

ABiC Live Surgery



Dr. Mahmoud Khaimi discusses the ABiC procedure with the film crew.

THE "MIGS WITH ABIC (MINIMALLY INVASIVE GLAUCOMA SURGERY WITH AB-INTERNO CANALOPLASTY)"

broadcast was streamed live from the McGee Eye Surgery Center on Tuesday, March 28. More than 150 physicians and eye health professionals—some from as far away as Bulgaria—had registered to see the event live.

As a pioneer of the ABiC™ procedure, Dr. Mahmoud Khaimi shared his surgical pearls and clinical tips, including how to correctly place the iTrack microcatheter, during his live surgery broadcast. Dr. Khaimi, who is a Clinical Associate Professor at the Dean McGee Eye Institute (DMEI) and has a special interest in

MIGS and the surgical treatment of glaucoma, said: "ABiC offers multiple advantages: having an excellent safety profile; providing surgical efficiency without the need for a permanent implant or stent; being minimally invasive with no manipulation of the conjunctiva; and, based on 12-month data, having proven efficacy in cases of both controlled and uncontrolled glaucoma. It is also important to note that ABiC acts to restore the natural outflow system, rather than bypass it," he added. "While no single type of glaucoma procedure can work for all patients, ABiC has a significantly lower risk profile than traditional surgical alternatives and offers quicker recovery for patients, allowing them to return to normal daily activities almost immediately following the procedure."

"Words cannot describe how gratifying it is to witness the impact that ABiC has had on so many of my patients' lives. We can now surgically treat glaucoma in a minimally invasive manner, surgically rejuvenate the eye's natural drain system and effectively lower the intraocular pressure to a level that is safe for the patient's eye health. What's also very appealing is that ABiC is less invasive than routine cataract surgery," said Khaimi. ■

DMEI Surgeon among First to Perform Breakthrough Glaucoma Treatment

DR. STEVEN R. SARKISIAN JR. WAS THE FIRST SURGEON IN OKLAHOMA AND

the second in the United States to perform the CyPass® Micro-Stent implant surgery. Recently approved by the Food and Drug Administration, the CyPass is a breakthrough in glaucoma treatment because it is a minimally invasive glaucoma surgery.

“Conventional treatments’ risk of complications has pushed eye doctors to look into several new ways of treating glaucoma without relatively large incisions or side effects,” says Sarkisian, the Director of the Dean McGee Eye Institute (DMEI) Glaucoma Fellowship and a Clinical Professor of Ophthalmology at the University of Oklahoma College of Medicine.

The CyPass procedure is a less invasive treatment option compared to traditional surgeries and can be completed at the same time as a cataract surgery. CyPass is a new choice for patients at risk of losing their sight to glaucoma.

“It’s never a good time to be a glaucoma patient, but it’s certainly exciting to have more options for patients,” Sarkisian says.

THE CYPASS® MICRO-STENT

Developed by Transcend Medical, the CyPass procedure is designed to treat patients with primary open-angle glaucoma. During the procedure, a CyPass Micro-Stent is implanted between the sclera and

the ciliary body of the eye. The stent addresses open-angle glaucoma by enhancing the drainage pathways of the eye, helping reduce the buildup of excess fluid that causes increased intraocular pressure.

Potential benefits include a decreased or discontinued need for glaucoma medications, continuous control of the eye’s intraocular pressure, and preservation of conjunctival and scleral tissue.

While it isn’t an option for every glaucoma patient, Sarkisian says the procedure has made an impact in his practice.

“There are still some people who need conventional surgery,” Sarkisian says, “but I tell you, my volume of that surgery has decreased by 90 percent in the last year because of these minimally invasive glaucoma procedures.” ■



Dr. Sarkisian examines glaucoma patient, Joseph Franta.

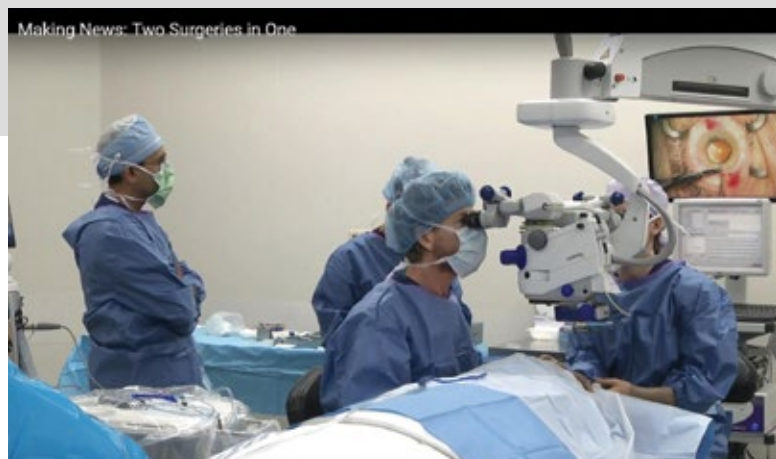
Two Surgeries in One

DOCTORS AT THE DEAN MCGEE EYE INSTITUTE OFTEN COMBINE CATARACT

and retina surgeries into one combined procedure. The combined surgery can prove useful for patients with retinal detachment, with holes in the retina or scar tissue on it, and for those with bleeding in the back of the eye, which is most common with diabetes.

It's an approach that is easier on the patient, is more cost effective, and can improve outcomes too. It requires critical coordination, with two surgeons, two sets of equipment, and two surgical teams in place and ready to work in tandem.

Ultimately, though, Drs. Ralph Hester, a cataract surgeon and a Clinical Associate Professor at the Dean McGee Eye Institute, and Vinay Shah, a retinal surgeon and also a Clinical Associate Professor, say it is about changing people's lives, restoring their vision, and helping them get back to the things they love doing most. ■



Making News: Two Surgeries in One
Drs. Vinay Shah (back left) and Ralph Hester (front left at microscope) during a recent combined surgery at the McGee Eye Surgery Center.



Dr. Hester executes the cataract surgery first. "I do my part first—take the cloudy lens out, which is the cataract, and put a clear lens implant back in its place. Then when the retina surgeon comes in and sets up to work on the retina, he can see much more clearly."



Dr. Shah (right at microscope) executes the retina surgery second. "The retina is a less than one millimeter thin membrane in the back of the eye. To work on that, you want the optimal visibility."

DMEI Showcase Videos

IN THE SUMMER OF 2016, the Dean McGee Eye Institute (DMEI) began to introduce brief showcase video clips of our clinicians and surgeons so that patients and prospective patients can learn more about their backgrounds, philosophies, and passions. We have since included our research faculty. Clinician and surgeon showcase video clips are available on the DMEI website, www.dmei.org, by going to “Patient Info” and then “Doctors and Other Clinical Providers.” Video clips for research faculty can be found under “Vision Research” and then “Vision Research Programs.” At this writing, 36 such showcase video clips have been produced with more being planned. For individuals for whom showcase video clips are currently available, a red asterisk is placed beside their names. ■

CLINICAL FACULTY [*Watch My Showcase Video](#)



***Janine E. Collinge, MD**
Clinical Assistant Professor



***Alexander Davis, MD, PhD**
Clinical Assistant Professor

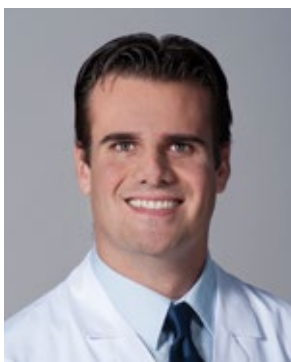


***Bradley K. Farris, MD**
PHF Presidential Professor;
Adjunct Professor,
Neurology and Neurosurgery

RESEARCH FACULTY [*Watch My Showcase Video](#)



***Michael H. Elliot, PhD**
Associate Professor



***Dimitrios Karamichos, PhD**
Associate Professor



***Darren J. Lee, PhD**
Assistant Professor

DR. FARRIS SELECTED TO RECEIVE Global Citizen Award in Health Care

BRADLEY K. FARRIS, MD HAS BEEN SELECTED BY THE WORLD EXPERIENCES Foundation to receive the 2017 Global Citizen Award in Health Care. He will be recognized at a gala at the Embassy Suites Hotel on Saturday, September 9 and was recently informed of this news by Akash Patel, President of the World Experiences Foundation.

Dr. Farris has served on the faculty at the Dean McGee Eye Institute (DMEI) since 1986 and is currently the Presbyterian Health Foundation Presidential Professor. He is a past recipient of two E.L. and Thelma Gaylord Faculty Honor Awards for excellence in resident teaching, the Leonard Tow Humanism in Medicine Award, and the Regents' Award for Superior Teaching from the OU College of Medicine.

The World Experiences Foundation (WEF) is an international non-profit based in Oklahoma City that strives to bring global citizens in classrooms worldwide to impart anti-bias multicultural and multilingual education. In the last five years, the WEF has brought global learning experiences and professional development on global education to thousands of educators and students in Oklahoma and abroad.

This year, the WEF's Global Citizen Awards Committee received over 200 nominations from around the state of Oklahoma and the world.



Dr. Bradley K. Farris (right) examines patient in Swaziland.

The committee was particularly impressed with Dr. Farris' accomplishments and his commitment to global citizenship. In this regard, he received the 2014 TianFu Friendship Award from the Sichuan Province of China for his international humanitarian and educational efforts and leadership.

DMEI Board member, Governor Bill Anoatubby of The Chickasaw Nation, is also being recognized by WEF at the gala with the Lifetime Achievement Award in Global Citizenship.

Chairs for the 2017 WEF Gala include retired US Ambassador Edwin Corr and former Oklahoma Governor Brad Henry. ■

FACULTY & STAFF AWARDS AND ACTIVITIES



MICHELLE C. CALLEGAN, PhD, recently presented Callegan M.C. “Endogenous Endophthalmitis: The Beast Within,” invited lecture at Asia-ARVO, Brisbane, Queensland, Australia, Feb. 2017; Callegan M.C. “Maximizing Your MPG (Mission-Plans-Goals),” invited lecture at the Leadership Development Program for Women, Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Baltimore, MD, May 2017; Coburn P.S., LaGrow A.L., Miller F.C., Luk B.T., Zhang L., Callegan M.C. “A Novel Biomimetic Nanosponge Protects the Retina from the Enterococcus Faecalis Cytolysin,” American Society for Microbiology Annual Meeting, New Orleans, LA, June 2017; and Callegan M.C., Coburn P.S., Enty M.A., Land C., LaGrow A.L., Miller F.C. “Transcriptome Analysis of Bacillus Cereus in Ocular and Laboratory Environments,” American Society for Microbiology Annual Meeting, New Orleans, LA, June 2017. She recently published Callegan M.C., Parkunan S.M., Randall C.B., Coburn P.S., Miller F.C., LaGrow A.L., Astley R.A., Land C., Oh S.Y., Schneewind O. “The Role of Pili in Bacillus Cereus Intraocular Infection,” *Experimental Eye Research*, March 2017.




DAN J.J. CARR, PhD, recently published Royer D.J., Gurung H.R., Jinkins J.K., Geltz J.J., Wu J.L., Halford W.P., Carr D.J.J. “A Highly Efficacious Herpes Simplex Virus 1 Vaccine Blocks Viral Pathogenesis and Prevents Corneal Immunopathology via Humoral Immunity,” *Journal of Virology*, March 2016 and Royer D.J., Carr M.M., Chucair-Elliott A.J., Halford W.P., Carr D.J.J. “Impact of Type I Interferon on the Safety and Immunogenicity of an Experimental Live-Attenuated Herpes Simplex Virus 1 Vaccine in Mice,” *Journal of Virology*, March 2017.



ANA CHUCAIR-ELLIOTT, PhD, recently published Chucair-Elliott A.J., Carr M.M., and Carr D.J.J. “Long-Term Consequences of Topical Dexamethasone Treatment During Acute Corneal HSV-1 Infection on the Immune System,” *Journal of Leukocyte Biology*, Jan. 2017; Gurung H.R., Carr M.M., Bryant K., Chucair-Elliott A.J., Carr D.J.J. “Fibroblast Growth Factor-2 Drives and Maintains Progressive Corneal Neovascularization Following HSV-1 Infection,” *Mucosal Immunology*, April 2017; and Royer D.J., Carr M.M., Chucair-Elliott A.J., Halford W.P., Carr D.J.J. “Impact of Type I Interferon on the Safety and Immunogenicity of an Experimental Live-Attenuated Herpes Simplex Virus 1 Vaccine in Mice,” *Journal of Virology*, March 2017.



MICHAEL H. ELLIOTT, PhD, recently published Oliveira S.D.S., Castellon M., Chen J., Bonini M.G., Gu X., Elliott M.H., Machado R.F., Minshall R.D. “Inflammation-Induced Caveolin-1 and BMPRII Depletion Promotes Endothelial Dysfunction and TGF- β -Driven Pulmonary Vascular Remodeling,” *American Journal of Physiology – Lung Cellular and Molecular Physiology*, May 2017; Gu X., Reagan A.M., McClellan M.E., Elliott M.H. “Caveolins and Caveolae in Ocular Physiology and Pathophysiology,” *Progress in Retinal and Eye Research*, Jan. 2017; and Elliott M.H., Ashpole N.E., Gu X., Herrnberger L., McClellan M.E., Griffith G.L., Reagan A.M., Boyce T.M., Tanito M., Tamm E.R., Stamer W.D. “Caveolin-1 Modulates Intraocular Pressure: Implications for Caveolae Mechanoprotection in Glaucoma,” *Scientific Reports*, Nov. 2016. His recent presentations include Reagan A.M. and Elliott M.H. “Contractile Properties of Retinal Arterioles are Reduced with Age,” presented by Alaina Reagan at Emerging Mechanisms of Vascular Biology, Disease, and Treatment, Vascular Cell Biology, Gordon Research Conference, Ventura, CA, Jan. 2017; Reagan A.M., Paudel S., Elliott M.H. “Caveolin-1 Deficiency Accelerates Age-Related Loss of Contractile Smooth Muscle Cells on Retinal Arteries,” presented by Alaina Reagan at the Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO), Baltimore, MD, May 2017; and Gurley J., Carr D.J.,



Hauck S.M., Elliott M.H. “Neuroretina-Specific Caveolin-1 Depletion Blunts Retinal Inflammation: Potential Role of Enhanced TRAF3 Production,” presented by Dr. Jami Gurley at ARVO Annual Meeting, Baltimore, MD, May 2017. He currently serves as a member of the Research Grant Review Committee (RGRC) for the American Diabetes Association, completed his term as chair of the ARVO Members-in-Training Committee, and will continue to serve as a committee member for one additional year at the request of ARVO.



BRADLEY K. FARRIS, MD, was recently chosen as the recipient of the World Experiences Foundation’s 2017 Global Citizen Award in Health Care (see page 15). He recently published Chen H., Zhang Q., Tan S., Fu H., Farris B.K. “Update on the Application of Optic Nerve Sheath Fenestration,” *Restorative Neurology and Neuroscience*, June 2017. His recent talks include “Idiopathic Intracranial Hypertension,” OU Neurology Grand Rounds, Oklahoma City, OK, March 2017; “Visual Vertigo,” Aier Eye Hospital, Chengdu, China, May 2017; and “Thyroid Eye Disease,” Annual International Sichuan Sino-American Ophthalmology Symposium, Chengdu, China, May 2017.



STEPHEN R. FRANSEN, MD, was recently elected to membership in the University of Oklahoma College of Medicine chapter of the Gold Humanism Honor Society (see page 21).



JEAN R. HAUSHEER, MD, FACS, was recently elected as president-elect of the Oklahoma State Medical Association (OSMA), April 2017. She serves as a Board member for the OSMA, Oklahoma Blood Institute, and Oklahoma Health Professionals Program.



DIMITRIOS KARAMICHOS, PhD, recently published Priyadarsini S., Nicholas S.E., Karamichos D. “3D Stacked Construct: A Novel Substitute for Corneal Tissue Engineering,” *Methods in Molecular Biology*, April 2017 [Epub ahead of print]; McKay T.B., Hjortdal J., Priyadarsini S., Karamichos D. “Acute Hypoxia Influences Collagen and Matrix Metalloproteinase Expression by Human Keratoconus Cells In Vitro,” *PLoS One*, April 2017; McKay T.B., Hjortdal J., Sejersen H., Karamichos D. “Differential Effects of Hormones on Cellular Metabolism in Keratoconus In Vitro,” *Scientific Reports*, Feb. 2017; Qi H., Priyadarsini S., Nicholas S.E., Sarker-Nag A., Allegood J., Chalfant C.E., Mandal N.A., Karamichos D. “Analysis of Sphingolipids in Human Corneal Fibroblasts from Normal and Keratoconus Patients,” *Journal of Lipid Research*, April 2017; McKay T.B., Karamichos D. “Quercetin and the Ocular Surface: What We Know and Where We are Going,” *Experimental Biology and Medicine*, March 2017; Betensley A., Sharif R., Karamichos D. “A Systematic Review of the Role of Dysfunctional Wound Healing in the Pathogenesis and Treatment of Idiopathic Pulmonary Fibrosis,” *Journal of Clinical Medicine*, Dec. 2016; and Priyadarsini S., Sarker-Nag A., Rowsey T.G., Ma J.X., Karamichos D. “Establishment of a 3D In Vitro Model to Accelerate the Development of Human Therapies against Corneal Diabetes,” *PLoS One*, Dec. 2016. He was the chair for the Cornea Section-Annual Meeting Program Committee at the Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Baltimore, MD, May 2017, and organized and moderated a Minisymposium on Keratoconus, “Insights Into the Molecular Mechanisms of Keratoconus,” ARVO Annual Meeting, Baltimore, MD, May 2017. He also served as a grant reviewer at the National Eye Institute Cornea Study Section, June 2017.



MAHMOUD A. KHAIMI, MD, was the Invited Guest International Speaker for the 2017 Red Sea Ophthalmology Symposium in Jeddah, Saudi Arabia, where he served as the glaucoma chair

FACULTY & STAFF AWARDS AND ACTIVITIES

for a panel of speakers, was wetlab instructor for iStent and Trabeculectomy, and presented at seven sessions including one focused on “Ab Interno Canaloplasty (ABiC) for the Surgical Treatment of OAG – A Safe and Effective MIGS.” He attended the 2017 Hawaiian Eye Annual Meeting and participated in the “Meet the Expert Session – ABiC” and presented the ABiC Symposium – “MIGS with ABiC.” Dr. Khaimi also participated in and presented these same sessions at the American Glaucoma Society (AGS) 2017 Annual Meeting, where, in addition, he participated in a breakfast roundtable discussion on “MIGS Postoperatively.” At AGS, Dr. Khaimi also presented three posters: “Twelve Month Follow-up of Ab-Interno Canaloplasty (ABiC) as a Standalone Treatment and as an Adjunct to Cataract Extraction for the Treatment of Glaucoma” in conjunction with Cooke M., Bailey A., and Ding K.; “Three-Year Outcomes of Canaloplasty without Suture Placement for the Treatment of Open-Angle Glaucoma” in conjunction with Melson A.; and “Twelve Month Follow-up of Ab-Interno Canaloplasty as a Standalone Treatment and in Adjunct to Cataract Surgery for the Treatment of Primary Open-Angle Glaucoma.” (The latter two posters were also presented at the American Society of Cataract and Refractive Surgery (ASCRS) 2017 Annual Meeting.) At the ASCRS Annual Meeting, Dr. Khaimi also participated in “Meet the Expert Sessions – ABiC,” participated in a lunch roundtable discussion on ABiC, presented the ABiC Symposium “MIGS with ABiC – A Step-by-Step Guide,” and was also wetlab instructor for the MIGS Skills Transfer Session. In March 2017, Dr. Khaimi performed a worldwide live surgery broadcast of the ABiC procedure from the McGee Eye Surgery Center in Oklahoma City (see page 11). He was named *The Journal Record’s* Innovator of the Year in August 2017 for his development of the ABiC procedure (see page 10).



ROBERT E. LEONARD II, MD, recently published Kuriyan A.E., Albin T.A., Townsend J.H., Rodriguez M., Pandya H.K., Leonard R.E., Parrott M.B., Rosenfeld P.J., Flynn H.W., Goldberg J.L. “Vision Loss After Intravitreal Injection of Autologous Stem Cells for AMD,” *New England Journal of Medicine*, March 2017.



ANIL D. PATEL, MD, recently published Sluch I.M., LaCroix J., Patel A.D. “Bilateral Optic Neuritis: A New Twist on Immune Reconstitution Inflammatory Syndrome,” *Canadian Journal of Ophthalmology*, June 2017.



RAJU V.S. RAJALA, PhD, recently published Chen Q., Qiu F., Zhou K., Matlock G.H., Takahashi Y., Rajala R.V.S., Yang Y., Moran M., Ma J.X. “Pathogenic Role of MicroRNA-21 in Diabetic Retinopathy through Down-Regulation of PPAR,” *Diabetes*, June 2017. He recently presented Rajala R.V.S., Kooker C., Wang Y., Rajala A. “Pyruvate Kinase M2: Function, Regulation and Role in Rod Photoreceptor Cells,” Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Baltimore, MD, May, 2017; and Takahashi Y., Chen Q., Qiu F., Matlock G.H., Moran E., Rajala R.V.S., Ma J.X. “Down-Regulation of PPAR through MicroRNA-Associated Mechanism in Diabetic Retinopathy,” ARVO Annual Meeting, Baltimore, MD, May 2017. Dr. Rajala has accepted an invitation to serve as a member of the Biology of the Visual System Study Section, National Institutes of Health (NIH) Center for Scientific Review, from July 1, 2017 to June 30, 2021.



STEVEN R. SARKISIAN JR., MD, was the first surgeon in Oklahoma to implant the XEN Gel Stent for the treatment of glaucoma. He recently published Kotecha A., Feuer W., Barton K., Gedde S.J., Tube Versus Trabeculectomy Study Group. “Quality of Life in the Tube Versus Trabeculectomy Study,” *American Journal of Ophthalmology*, Feb. 2017; Tanna A.P., Rademaker A.W., de Moraes C.G., Godfrey D.G., Sarkisian S.R. Jr., Vold S.D., Ritch R. “Collagen Matrix vs Mitomycin-C

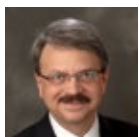
in Trabeculectomy and Combined Phacoemulsification and Trabeculectomy: A Randomized Controlled Trial,” *BMC Ophthalmology*, Dec. 2016; and Stephens J.D., Sarkisian S.R. Jr. “The Use of Collagen Matrix (Ologen) as a Patch Graft in Glaucoma Tube Shunt Surgery, a Retrospective Chart Review,” *F1000 Research*, Aug. 2016. He presented Smart J., Sarkisian S.R. Jr., MIGS Study Group. “Standalone Implantation of 2 Trabecular Micro Bypass Stents in Eyes with OAG on 1 Preoperative Medication: Outcomes through 48 Months,” Poster Presentation, American Glaucoma Society (AGS) Annual Meeting, San Diego, CA, March 2017; Sarkisian S.R. Jr., MIGS Study Group. “Treatment with 2 Second-Generation Trabecular Bypass Stents Together with Postoperative Prostaglandin in Eyes with OAG Taking 2 Preoperative Medications: 30 Month Report,” Poster Presentation, AGS Annual Meeting, San Diego, CA, March 2017; “Standalone Implantation of 2 Trabecular Bypass Stents in Eyes with OAG on 1 Preoperative Medication: Outcomes through 48 months,” “XEN and the Art of Micro-Invasive Glaucoma Surgery,” Lecturer and Moderator of Grand Rounds, University of Texas Southwestern College of Medicine, Department of Ophthalmology Bi-Monthly Conference, Dallas, TX, Jan. 2017; “CyPass Micro-Stent: Charting the New Course for MIGS,” Dallas Academy of Ophthalmology, Dallas, TX Jan. 2017; “Innovation in MIGS in the Supraciliary Space,” American Society of Cataract and Refractive Surgery (ASCRS) EyeWorld Clinical Case Series, Los Angeles, CA, May 2017; “Subconjunctival Filtration,” ASCRS Glaucoma Day, Los Angeles, CA, May 2017; and “Analysis of 360 Degree Ab Interno Trabeculotomy in POAG,” World Glaucoma Congress, Helsinki, Finland, June 2017. He was an Instructor and Co-Moderator for the Glaukos Glaucoma Fellows Annual Course, Laguna Beach, CA, April 2017; served as Program Director for the University of Oklahoma/ Dean McGee Annual Ophthalmology Symposium, June 2017 and presented “What, No Trabeculectomy? Why Your Local Glaucoma Specialist Chose Not to Filter Your Glaucoma Patient” at that meeting; and was Instructor for the XEN Gel Glaucoma Stent Wet Lab, World Glaucoma Congress, Helsinki, Finland, June 2017.



R. MICHAEL SIATKOWSKI, MD, has been named a David Ross Boyd Professor in the University of Oklahoma (OU) College of Medicine (see page 8) and currently serves as the vice president of the American Association for Pediatric Ophthalmology and Strabismus (AAPOS) and as president-elect of the Program Directors Council of the Association of University Professors of Ophthalmology. He will be recognized with a 2017 Secretariat Award from the American Academy of Ophthalmology (AAO) for his commitment to the Annual Meeting and for his work on the Subspecialty Day Advisory Committee. Dr. Siatkowski recently published Wallace D.K., Kraker R.T., Freedman S.F., Crouch E.R., Hutchinson A.K., Bhatt A.R., Rogers D.L., Yang M.B., Haider K.M., VanderVeen D.K., Siatkowski R.M., Dean T.W., Beck R.W., Repka M.X., Smith L.E., Good W.V., Hartnett M.E., Kong L., Holmes J.M., Pediatric Eye Disease Investigator Group (PEDIG). “Assessment of Lower Doses of Intravitreal Bevacizumab for Retinopathy of Prematurity: A Phase 1 Dosing Study,” *JAMA Ophthalmology*, June 2017; Gurwin J., Tomlinson L.A., Quinn G.E., Ying G.S., Baumritter A., Binenbaum G., on behalf of the Postnatal Growth and Retinopathy of Prematurity (G-ROP) Study Group and the Telemedicine Approaches to Evaluating Acute-Phase Retinopathy of Prematurity (e-ROP) Cooperative Group. “A Tiered Approach to Retinopathy of Prematurity Screening (TARP) Using a Weight Gain Predictive Model and a Telemedicine System,” *JAMA Ophthalmology*, Feb. 2017; Binenbaum G., Tomlinson L., on behalf of the G-ROP Study Group. “Postnatal Growth and Retinopathy of Prematurity Study: Rationale, Design, and Subject Characteristics,” *Ophthalmic Epidemiology*, Feb 2017; Daniel E., Ying G.S., Siatkowski R.M., Pan W., Smith E.J., Quinn G.E., e-ROP Cooperative Group. “Intraocular Hemorrhages and Retinopathy of Prematurity in the Telemedicine Approaches to Evaluating Acute-Phase Retinopathy of Prematurity (e-ROP) Study,” *Ophthalmology*, March 2017; Kinori M., Ben Simon G.J., Zehavi-Dorin T., Robbins

FACULTY & STAFF AWARDS AND ACTIVITIES

S.L., Siatkowski R.M. “Ptosis Shmosis,” *Survey of Ophthalmology*, March 2017; Quinn G.E., Ying G.S., Repka M.X., Siatkowski R.M., Hoffman R., Mills M., Morrison D., Daniel E., Baumritter A., Hildebrand P.L., Schron E., Ells A.L., Wade K., Kemper A.R. “Timely Implementation of an ROP Telemedicine System,” *Journal of AAPOS*, May 2016; and Robinson M.E., Moreau A., O’Meilia R., Pagteilan J., Ding K., Siatkowski R.M., Farris B.K. “The Relationship Between Optic Nerve Sheath Decompression Failure and Intracranial Pressure in Idiopathic Intracranial Hypertension,” *Journal of Neuro-Ophthalmology*, Sept. 2016. He presented Siatkowski R.M., Venincasa V., Bugg V., Dvorak J., Ding K., Bhatti F. “Temporal Profile of Retinopathy of Prematurity in Extremely Premature Infants,” American Ophthalmological Society, Hot Springs, VA, May 2017, and Siatkowski R.M. “Strategies for Remediating Residents Struggling in Surgery,” Association of University Professors of Ophthalmology (AUPO) Annual Meeting, San Diego, CA, Jan. 2017. He was the Special Guest Speaker at the Vanderbilt Eye Institute Residents’ Day, Nashville, TN, June 2017 and a Visiting Lecturer/Grand Rounds guest, Jules Stein Eye Institute, Los Angeles, CA, Feb. 2017.



GREGORY L. SKUTA, MD, has been named a Regents’ Professor in the University of Oklahoma (OU) College of Medicine (see page 9). Dr. Skuta presented a “Glaucoma Update for Primary Care” on May 2 as a speaker for the OU College of Medicine’s 20th Annual Primary Care Update in Midwest City. On June 10, he served as the Guest Speaker for the 37th Annual Resident and Alumni Day at the University of Texas Southwestern Medical Center in Dallas. His lectures were entitled “Practical Lessons from Glaucoma Clinical Trials” and “Glaucoma Surgery 2017: Trends, Challenges, and Advances.” In March, he was elected to membership in The Fortune Club, an organization comprised of Oklahoma City civic, business, and medical leaders that also includes Dean McGee Eye Institute Board of Trustees members Dr. John Bozalis, Michael Joseph, Larry Nichols, David Rainbolt, and G. Rainey Williams Jr. As a member of the Truhlsen Advisory Council (TAC) for the University of Nebraska’s Truhlsen Eye Institute, Dr. Skuta visited Omaha for a TAC meeting on June 15. In March 2018 in New York City, Dr. Skuta will receive the President’s Award from the American Glaucoma Society “for significant contributions to the glaucoma community through his scientific achievements, service to the Society, and/or service to the profession as a whole.”



LILY L. WONG, PhD, recently released Chapter 3, “Cerium Oxide Nanoparticles-Associated Oxidant and Antioxidant Effects and Mechanism,” in *Rare Earth Elements in Human and Environmental Health: At Crossroads between Toxicity and Safety*, edited by Pagano G., Pan Stanford Publishing, Nov. 2016. She has been re-elected to a three-year term as a member of the Women in Eye and Vision Research (WEAVR) Leadership Committee (2017–2019). WEAVR is a program designed to encourage and strengthen the career paths of female vision researchers and represents an initiative by the Association for Research in Vision and Ophthalmology (ARVO) Foundation. She recently gave an oral presentation entitled, “Distinct Cellular Uptake and Clearance Patterns of Nanoceria in the Retina,” ARVO Annual Meeting, Baltimore, MD, May 2017; was a co-moderator for an oral presentation session at ARVO, Baltimore, MD, in the scientific section of Physiology/Pharmacology, Session 208-Retina/RPE; was co-inventor for a provisional patent, “Nanoceria Carriers of Therapeutic and Diagnostic Agents and Methods of Using Same,” March 2017; taught three vision researchers to effectively use the confocal imaging system in the NEI/DMEI Cellular Imaging Core Facility from Jan.–April 2017; and completed a year-long mentorship program with Annie Dong, a senior high school student from the Oklahoma School of Science and Mathematics (Aug. 2016–May 2017).

Stephen R. Fransen, MD Elected to Gold Humanism Honor Society

DR. STEPHEN R. FRANSEN,

Associate Professor of Ophthalmology, has been elected to membership in the University of Oklahoma (OU) College of Medicine chapter of the Gold Humanism Honor Society (GHHS) in recognition of his



“humanism with respect to his attitude and care of patients and his interactions with others” and “exemplary demonstration of respect for human beings through the practice and teaching of medicine.”

The GHHS was created by the Arnold P. Gold Foundation for Humanism in Medicine to

emphasize the importance of professional virtues, humanism, interpersonal skills, and caring for others and to honor senior medical students, residents, and role-model physicians who achieve this excellence.

“Dr. Fransen’s humanistic attributes are evident in his medical retina practice at the Dean McGee Eye Institute,” said Dr. Gregory L. Skuta MD, DMEI’s President and Chief Executive Officer. “He also demonstrates deep empathy and compassion in his work with the American Indian nations in Oklahoma and through his humanitarian efforts in Nicaragua.”

Other DMEI faculty members in GHHS include Drs. R. Michael Siatkowski, Bradley Farris, and Annie Moreau. The latter two also are past recipients of the Leonard Tow Humanism in Medicine Award. Paul Tlucek, MD, a former OU medical student and ophthalmology resident, also is a GHHS member. ■



DR. CYNTHIA A. BRADFORD (right), Professor of Ophthalmology at the Dean McGee Eye Institute (DMEI) and the current president of the American Academy of Ophthalmology (AAO), hosted the AAO Board of Trustees and Committee of Secretaries in Oklahoma City from June 22 to June 24. She is shown here with Dr. George A. Williams (left), who is the Academy’s Secretary for Federal Affairs and has been nominated to serve as AAO president in 2019. Dr. Williams will deliver the Walter J. Stark Lecture at DMEI in the fall of 2018. ■

PHILANTHROPY UPDATE

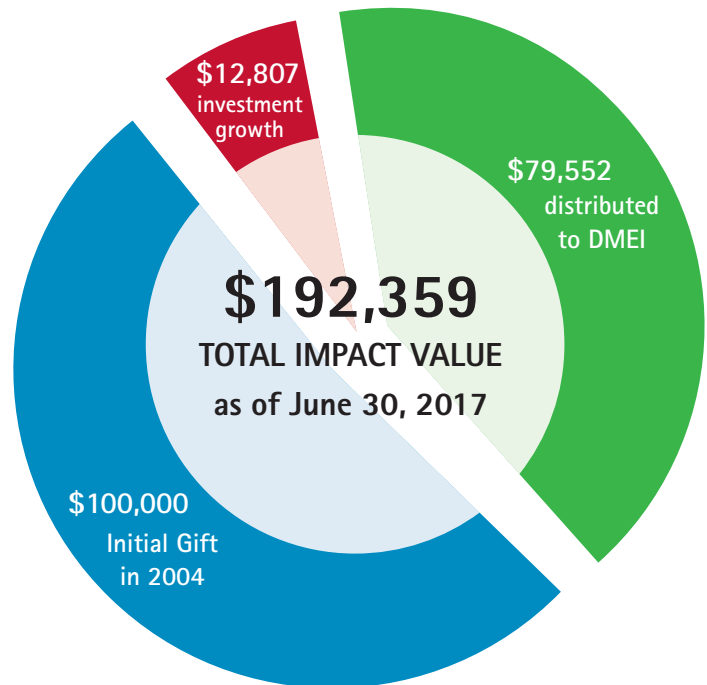
See the Impact a Gift to the Dean McGee Eye Institute Foundation's Endowment Can Make

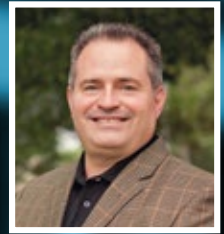
YOUR GIFT TO AN ENDOWMENT

FUND in the Dean McGee Eye Institute Foundation goes into a permanent fund designed to support the work of the Dean McGee Eye Institute (DMEI) in perpetuity. All endowment funds are invested in our general pool, providing for growth through investment performance. Each year, DMEI receives a distribution amount from the fund equal to 5 percent of the fund's average market value for the previous six quarters.

Based on past investment performance of the DMEI Foundation's general pool, a \$100,000 endowment gift in 2004 would be worth \$112,807 today after distributions, which would have totaled \$79,552 over the 13-year period.

"Endowment gifts are special because they provide ongoing, reliable support for the programs at DMEI," states Jim Durbin, Executive Director of Development for DMEI. "What is amazing about endowment gifts is that both the value of the endowment and the amount distributed to DMEI can grow over time to the point where each is greater than the original gift. Endowment is a giving multiplier." ■





Jim Durbin
Executive Director of Development

Couple from Bartlesville Remains Faithful Supporter

WILLIAM R. LONEY, MD WAS A LONG-TIME DERMATOLOGIST in Bartlesville, Oklahoma. He and his wife, Sylvia, were also long-time donors to the Dean McGee Eye Institute (DMEI). “The Loneys began supporting DMEI back in 1977, only two years after the Institute opened its doors. They gave faithfully over the next 32 years,” said Jim Durbin, Executive Director of Development for DMEI. “Their gifts were modest, usually \$100 per year, but they were consistent.” Unbeknownst to DMEI, the Loneys’ commitment ran even deeper than expected. Before William and Sylvia passed away, they had made a provision in their trust to distribute a portion of their estate to DMEI. “We were very pleased to receive a distribution of over \$61,000 from the Loneys’ trust,” states Durbin. “With this gift, the Loneys’ commitment to DMEI can continue on indefinitely.” ■

Are you age 70 ½ or older?

SUPPORT THE DEAN MCGEE EYE INSTITUTE WITH A TAX-FREE GIFT FROM YOUR IRA.

IF YOU ARE AGE 70 ½ OR OLDER, YOU ARE REQUIRED TO TAKE an annual distribution from your individual retirement account (IRA), whether you need it or not. However, you can make an IRA Charitable Rollover gift to the Dean McGee Eye Institute Foundation of up to \$100,000 annually, which can help fulfill your required minimum distribution without reporting it as taxable income. For tax year 2017, distributions must be made by December 31, 2017. To learn how to make an IRA Charitable Rollover gift, please contact Jim Durbin at 405.271.7803 or jim-durbin@dmei.org.

A PATIENT—GRATEFUL FOR THE GIFT OF SIGHT— GIVES BACK TO DEAN MCGEE

BY APRIL WILKERSON

IN THE TWO YEARS HE LIVED WITHOUT A diagnosis or treatment for his eye spasms, James had reached a point of despair.

His eyelids were contracting so often and with such intensity that he could no longer drive. He had a severe headache around the clock, and even when he pried his eyelids open in an attempt to see, they would clamp back shut the moment he let go. He was so desperate he wondered if he could have his eyelids surgically removed.

“When you have pain 24 hours a day for a couple of years, it’s very fatiguing. It wears you down, not only physically but mentally,” said James, a patient at the Dean McGee Eye Institute (DMEI) who asked that his real name not be used.

James, who lives in Texas, eventually received a diagnosis of BEB – benign essential blepharospasm—a type of dystonia characterized by abnormal blinking or spasms of the eyelids. But his true relief came when he decided to return to his native Oklahoma and the physicians at DMEI. That was about 20 years ago, and James was referred to Dr. Robert Small, who practiced ophthalmology at DMEI for more than 30 years and passed away earlier this year (see page 39).

Dr. Small helped to pioneer a surgical treatment for BEB called facial neurectomy. The surgery, which was difficult to perform and came with risks, involved dissecting the nerve that controls the muscles around the eye, thereby paralyzing the muscles and reducing the spasms. James was eager for relief, and Dr. Small performed a bilateral facial neurectomy that worked dramatically well. Today, James has good vision, few spasms and no pain.

“Dean McGee Eye Institute made it possible for me

to live a normal life,” he said. “I’m deeply indebted to them.”

James returns to DMEI every few months so that Dr. Bradley K. Farris can monitor his condition. Dr. Farris, who trained as a resident under Dr. Small in the 1980s, has many patients with BEB and is grateful that he can provide them some relief. However, facial neurectomies are no longer performed. Although James’s operation was successful, many patients experienced too much paralysis of the eye muscles, others not enough. And it was difficult to predict how the nerve would rewire. Today’s standard treatment involves

injections of botulinum toxin (Botox), which has been refined in dosage and injection techniques to treat the condition well.

“We now offer low-dose botulinum toxin injections to the upper and lower eyelids and sometimes the eyebrow,” Dr. Farris said. “The injections work and then they wear off, so we slowly increase the dose as needed to try to extend the duration or improve the benefit.

The injections last an average of two to three months. About 95 percent of patients are adequately treated and happy with the injections; about 5 percent ultimately need additional surgery.”

James has been so grateful that he has become a regular donor and, in fact, plans to leave his estate to DMEI. Dr. Small, Dr. Farris and the DMEI staff gave him his life back, and he wants to support their working helping others.

“I just think it’s another blessing that I can donate,” James said. “Oddly enough, this whole experience has made me a much better person. It’s made me a more caring, considerate person. I never appreciated my eyesight until I started losing it and was in pain. Now I’m glad that I can help others.” ■

“Dean McGee Eye
Institute made it
possible for me to
live a normal life.”

SARKEYS FOUNDATION HELPS DMEI RECRUIT NEW VISION SCIENTISTS

THE SARKEYS FOUNDATION OF NORMAN, OKLAHOMA pledged \$250,000 to the Dean McGee Eye Institute's (DMEI's) initiative to recruit new vision scientists to the Institute. The overall goal of this project is to attract at least four additional vision scientists to DMEI and the University of Oklahoma in the areas of retinal degenerations, ocular infections and inflammatory disease, corneal disorders, diabetic retinopathy, and glaucoma.

"The Sarkeys Foundation is dedicated to improving the quality of life in Oklahoma, and we are grateful for their support of this effort, which has the potential to reduce the risk of visual impairment and blindness for those who suffer from such conditions as age-related macular degeneration, diabetic retinopathy, ocular infections, and keratoconus, which together impact close to 400,000 Oklahomans," states Gregory L. Skuta, MD, DMEI's President and Chief Executive Officer. ■

An Art Collector with a Vision

GRACE "PAM" PARRISH WAS AN AVID ART COLLECTOR with a special fascination with Navajo weavings, some of which have been displayed at the National Cowboy and Western Heritage Museum in Oklahoma City. Pam understood the important role vision played in her ability to discern which weavings to add to her collection, and she supported vision research and other initiatives at the Dean McGee Eye Institute (DMEI). For 30 years, from 1984 through 2014, Pam was a loyal supporter of DMEI with most of her annual gifts in the \$1,000 to \$1,500 range. When later in life she suffered from a degenerative eye disease, she decided to leave a gift for DMEI in her trust to help ensure that the work of the Institute could carry on and serve others afflicted with potentially blinding conditions. Pam passed away on March 2, 2015. Through her trust, she left a gift to DMEI of \$1,070,000. "We are exceedingly grateful to Pam Parrish for her foresight to include DMEI in her estate plans," said Jim Durbin, Executive Director of Development at DMEI. "Her donation will be added to the Institute's endowment and help support the work of DMEI for generations to come. We hope others will be inspired to follow her example." ■

If you want to learn more about planning a gift to DMEI, please contact Jim Durbin at (405) 271-7803 or by email at jim-durbin@dmei.org or visit www.plannedgiving.dmei.org

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THE DEAN MCGEE EYE INSTITUTE gratefully acknowledges the donors who gave gifts in 2016 to support our missions of patient care, education, vision research, community and global outreach. Every effort has been made to include all gifts and pledges from January 1, 2016 - December 31, 2016.

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TODAY'S WORLD OF SOCIAL MEDIA PROVIDES new opportunities to support the causes you care about in fun and unique ways. Use your creativity and passion to take an active role on behalf of the Dean McGee Eye Institute by fundraising, donating, or spreading awareness for our cause.

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THE ACERS SOCIETY WAS ESTABLISHED by the alumni of the University of Oklahoma Department of Ophthalmology in recognition of its first full-time chair, Dr. Thomas E. Acers. The Society exists to support ophthalmology resident and fellow education of the highest quality. Proper training and supervised clinical experience of tomorrow's ophthalmologists will best serve both patients and the profession. Members of the Acers Society share this commitment.

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Neuroscientist for a Day Event

THE OKLAHOMA NEUROSCIENCE

CHAPTER is a subsidiary of the nationally recognized Society for Neuroscience, which is committed to the education and awareness of the functions of the brain. One of the organization's missions is to foster brain awareness through local events in Oklahoma, which various generous donations (including support from the Dean McGee Eye Institute) help make possible. The first event was the Brain Awareness Event themed "A Neuroscientist for a Day," held on April 7 and 8 at the Science Museum Oklahoma in Oklahoma City. During the event, visitors to the museum were able to play interactive games, see human brains, and examine eyes/globes, all with the purpose of learning something about neuroscience.

Dr. Dimitrios Karamichos, Associate Professor of Ophthalmology and Cell Biology, currently serves as the president of the Oklahoma Neuroscience Chapter. ■



TOP PHOTO: Pictured (left to right): Hibah O. Awwad (chapter representative), Otto the Robot, and Dimitrios Karamichos, PhD.

BOTTOM PHOTO: Pictured (left to right): Shrestha Priyadarsini, Dimitrios Karamichos, PhD, and Sarah Nicholas. Shrestha (research scholar) has been a team member in Dr. Karamichos' laboratory for three years, and Sarah (laboratory manager) has been a team member with Dr. Karamichos for two years.

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RESEARCH TO PREVENT BLINDNESS AWARDS GRANT TO OU DEPARTMENT OF OPHTHALMOLOGY

THE UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER (OUHSC)

has been awarded an Unrestricted Grant by Research to Prevent Blindness (RPB) in the amount of \$115,000 a year for five years to support eye research conducted by the Department of Ophthalmology. This funding has been awarded based on a thorough review of criteria, including the Department's research activities, laboratory environment, and clinical and scientific staff, as evaluated by RPB's renowned Scientific Advisory Panel.

The research will be directed by Gregory L. Skuta, MD, Edward L. Gaylord Professor and Chair and Regents' Professor in the OU Department of Ophthalmology and President and Chief Executive Officer of the Dean McGee Eye Institute. The funds will be deployed at the discretion of the Department Chair to provide maximum flexibility in developing and expanding eye research programs, and to provide opportunities for creative planning that go beyond the scope of restricted project grants.

RPB is the world's leading voluntary organization supporting eye research, and the OU Health Sciences Center holds one of only 37 RPB Unrestricted Grants nationwide. To date, the organization has awarded grants totaling \$5,477,033 to the OU Health

Sciences Center, placing it among the top 15 centers in the nation in cumulative RPB funding. Other top programs include Harvard Medical School, University of California—San Francisco, Johns Hopkins University, University of California—Los Angeles, University of Michigan, Washington University – St. Louis, Duke University, University of Pennsylvania, Columbia University, University of Wisconsin, University of Utah, Oregon Health and Science University, Weill Cornell Medical College, and University of Southern California.

"This grant will be vital to advancing our Department's scientific study of retinal degenerations, diabetic eye disease, infectious and inflammatory disease, corneal disorders, and other conditions that can result in vision loss," Dr. Skuta stated. "Our strong history of support from RPB has played a critical role in the success of the vision research programs on the OUHSC campus."

Since it was founded in 1960, RPB has channeled more than \$349 million into eye research. As a result, RPB has been identified with nearly every major breakthrough in vision research in that time. For information on RPB's grants program, listings of RPB institutional and individual grantees, and findings generated by these awards, go to www.rpbusa.org. ■

Dr. Derek Royer Receives Research Awards



DR. DEREK ROYER, a second-year postdoctoral fellow in Dr. Daniel Carr's laboratory, was awarded the Cora Verhagen Prize and the Dr. Raniyah Ramadan Foundation Award at the most recent Association for Research in Vision and Ophthalmology (ARVO) conference in Baltimore, Maryland in May for his outstanding presentation in the Immunology/Microbiology section of the 2016 ARVO meeting. This achievement is the first time in the history of ARVO that a single individual received both awards simultaneously. Dr. Royer's presentation described a novel vaccine against ocular herpes simplex virus type 1 infection and the efficacy of the vaccine in preventing infection while maintaining visual acuity—a first of its kind. ■

JAPANESE SCIENTISTS VISIT DMEI

THE DEAN MCGEE EYE INSTITUTE

(DMEI) was delighted to host three Japanese scientists in Oklahoma City in May. Dr. Akihiro Ohira is Professor and Chair of the Department of Ophthalmology, Shimane University School of Medicine, and Vice President of Medical Science and Planning at Shimane University. Dr. Shinsei Minoshima is a Professor in the Department of Photomedical Genomics, Institute for Medical Photonics Research; Director of the Preeminent Medical Photonics Education and Research Center; and Vice President for Research at Hamamatsu University School of Medicine. Dr. Kentaro Ohishi is an Assistant Professor of Ophthalmology at Hamamatsu University. ■



Pictured (left to right): Gloria Anderson, Dr. Robert "Gene" Anderson, Professor Akihiro Ohira, Professor Shinsei Minoshima, Anne Skuta, Dr. Gregory Skuta, and Dr. Kentaro Ohishi.

Robert E. Anderson, MD, PhD Named Research Exemplar



DR. ROBERT E. "GENE" ANDERSON was recently honored as a Biomedical Research Exemplar by the Washington University School of Medicine in St. Louis. The Research Exemplar Project seeks to honor and learn from individuals performing high-quality, high-impact, federally-funded research who also maintain an impressive reputation for professionalism and integrity in their work.

Thirty biomedical researchers and 24 STEM (science, technology, engineering, and math) researchers were recognized nationally as Research Exemplars. Dr. Gregory Skuta, DMEI President and Chief Executive Officer, stated, "This prestigious award once again recognizes Dr. Anderson for his extraordinary scientific contributions and impeccable character." ■



SAVE THE DATE
2ND ANNUAL ROBERT E. ANDERSON, MD, PhD LECTURE

**11th Annual
OU Vision Workshop**
September 28-29, 2017

Tullos O. Coston, MD Lecture Hall at DMEI (Acers Pavilion, 5th Floor)

ANDERSON LECTURER (SEPTEMBER 28): Victor L. Perez, MD
Professor of Ophthalmology, Director of the Center for Ocular Immunology,
Duke Eye Center, Duke University School of Medicine, Durham, North Carolina

DMEI Alumnus a Pioneer in Developing Transformative Corneal Transplant Procedure

BY APRIL WILKERSON

WHILE HE WAS A CORNEA FELLOW AT THE DEAN MCGEE EYE INSTITUTE

(DMEI) in 1984-85, Mark A. Terry, MD, furthered his skills in treating and researching corneal diseases with guidance from some of the finest physicians in Oklahoma and the nation. But he learned another important lesson from his mentors at that time: to think big and never be content with the status quo.

Those experiences have directed his career since, leading him to create groundbreaking new methods of caring for his patients and untold others around the world.

As a DMEI cornea fellow beginning in 1984, Dr.

Terry was thrilled to join a tight-knit group under the leadership of Thomas Acers, MD, who, along with James Rowsey, MD, shaped Dr. Terry's career trajectory. Dr. Rowsey, Dr. Terry's fellowship director and a world renowned corneal surgeon, later became an academic department chair in Tampa, Florida.

"They were visionaries," Dr. Terry said. "They taught me that even though you're only one person, you can make a difference if you just think big. Dr. Acers did that by building DMEI from the ground up, and Dr. Rowsey did that by taking a whole new approach to analyzing the properties of the cornea."

“...he learned another important lesson from his mentors at that time: to think big and never be content with the status quo.”

After his fellowship, Dr. Terry returned to his hometown of San Francisco because he owed the U.S. Navy two years of service for payment of medical school. Toward the end of his two years as a Navy corneal transplant surgeon, Dr. Terry received a call from Dr. Rowsey asking him to come back to DMEI as faculty. He was thrilled

to return to Oklahoma, and he spent three years treating patients before falling in love with a woman named Cindy who was from Portland, Oregon. They ultimately moved back to Portland in 1990, where Dr. Terry is now Director of Corneal Services for the Devers Eye Institute.



In Portland, he found himself starting from scratch to build his practice. “I had two patients my first day of work, and one was my mother-in-law,” he said. But new patients kept arriving over the next several years, and Dr. Terry conducted small laboratory investigations to keep his research interests afloat until he had enough patients to do meaningful clinical research.

Around 1996, Dr. Terry started down the path in which he would ultimately help bring about the biggest change that corneal transplantation had seen in a century. He thought there must be a better approach than full thickness corneal transplants, which often came with complications, plus patients had to wait one or two years to achieve their best vision. He read extensively on lamellar keratoplasty and wrote a review article in the journal *Cornea*. He also was invited to be on the advisory board for Bausch

+ Lomb to develop new instruments. But the turning point came in 1998, when he read an article by a Dutch researcher who was working on a partial thickness corneal transplant using eye bank eyes. The procedure was promising, but it was so difficult to perform that there was no promise of it being repeated on a regular basis.

Dr. Terry set about to change that. He spent a year, working nights and weekends, developing new tools and approaches for the surgery. In 2000, he performed the first successful endothelial keratoplasty procedure in the United States. The procedure replaces a thin layer of cells on the back surface of the cornea, rather than the full thickness corneal transplant. That changed everything and is now the most common form of transplantation performed.

“My first procedure was a phenomenal success,” he said. “My patient could see better in two weeks than patients with standard transplants could see in a year, with no complications.”

Since then, Dr. Terry has performed more than 3,000 endothelial keratoplasties at Devers on patients who travel far and wide to see him. He has lectured broadly on the topic and taught surgeons around the world. He still contributes to the evolution of the procedure.

“Every day, I have patients look me in the eye and tell me, ‘You changed my life,’” Dr. Terry said. “It’s the most wonderful thing in the world. And it never would have happened if I hadn’t been told to think big.” ■

UNIVERSITY OF OKLAHOMA DEPARTMENT OF OPHTHALMOLOGY 2017-2018 **NEW RESIDENTS & FELLOWS**

CONGRATULATIONS TO THE INCOMING 2017 RESIDENTS



Pictured (left to right): Drs. Muho, Gudgel, John, and Griffin.

David R. Griffin, MD

College: Brigham Young University
Medical School: University of Central Florida

Brett M. Gudgel, MD

College: University of Oklahoma
Medical School: University of Oklahoma College of Medicine

Finny T. John, MD

College: Cornell University
Medical School: State University of New York, Upstate-Syracuse

Gerta Muho, MD

College: Oakland University
Medical School: Oakland University/Beaumont School of Medicine

INCOMING FELLOWS 2017-2018

Andrew Hack, MD

Cornea Fellow
Medical School: University of South Carolina
Residency: Texas A & M – Baylor Scott and White

James C. O'Brien, MD

Neuro-Ophthalmology Fellow
Medical School: The University of Texas Medical Branch School of Medicine
Residency: University of Oklahoma/Dean McGee Eye Institute

Shripaad Y. Shukla, MD

Retina Fellow (second year)
Medical School: University of Illinois College of Medicine
Residency: University of Chicago

Justin Spaulding, DO

Glaucoma Fellow
Medical School: Rocky Vista University College of Osteopathic Medicine
Residency: Henry Ford Hospital System



SAVE THE DATE: Monday, September 25, 2017

THE 26TH ANNUAL WALTER J. STARK MEMORIAL LECTURESHIP

8:30 am–9:30 am • Tullos O. Coston, MD Lecture Hall

Keith D. Carter, MD

*Lillian C. O'Brien and Dr. C.S. O'Brien Endowed Chair in Ophthalmology
Professor and Chair, Department of Ophthalmology and Visual Sciences
Professor of Otolaryngology
University of Iowa Hospitals and Clinics
Iowa City, Iowa
President-Elect, American Academy of Ophthalmology
President, Association of University Professors of Ophthalmology*

ANDREW T. MELSON, MD, NEW CHIEF RESIDENT, WILL ATTEND HEED RETREAT

DR. ANDREW MELSON HAS BEEN SELECTED AS CHIEF RESIDENT for the 2017-2018 academic year, which started on July 1. Dr. Melson is a native of Ohio and a graduate of Saint Louis University with a bachelor's degree (summa cum laude) in chemistry and minors in theology and philosophy. He attended Saint Louis University School of Medicine, where he was elected into Alpha Omega Alpha Medical Honor Society as a junior and graduated with distinctions in research and community service. He completed a Transitional Medicine Internship at Methodist Hospital in Indianapolis, Indiana. Dr. Melson's wife Danielle is a physical therapist.

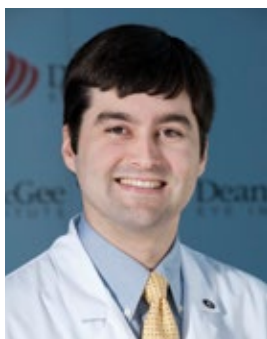
Given his exceptional promise for a career in academic ophthalmology, Dr. Melson also was recently notified that he has been selected for the 12th Annual Heed Ophthalmic Foundation Residents Retreat. He was one of only 45 residents chosen to attend this retreat,



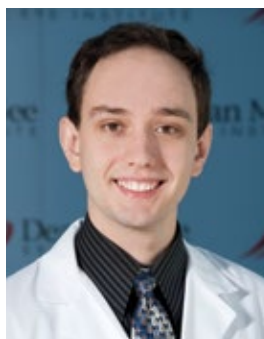
which will be held in the Chicago area on September 25-26.

Dr. Melson's predecessor as Chief Resident, James C. O'Brien, MD, began a neuro-ophthalmology fellowship at the Dean McGee Eye Institute in July. ■

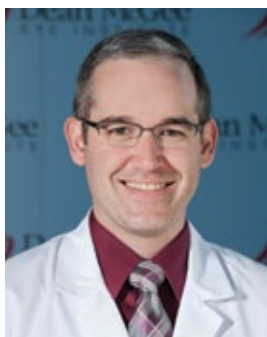
DEPARTMENT OF OPHTHALMOLOGY UNIVERSITY OF OKLAHOMA THE GRADUATES OF 2017



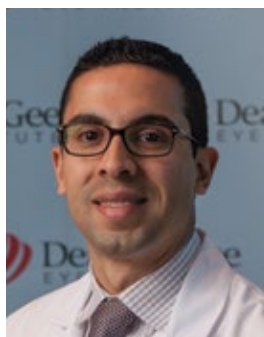
CLIFTON C. FAY JR., MD has completed three years of residency training and will enter private practice as a comprehensive ophthalmologist in Albany, Georgia.



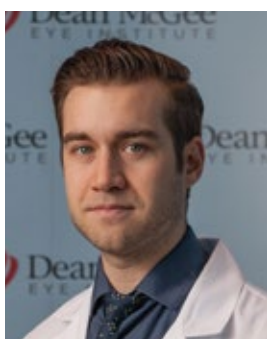
ELI SLUCH, MD has completed three years of residency training and will enter a cornea fellowship at the Bascom Palmer Eye Institute in Palm Beach, Florida.



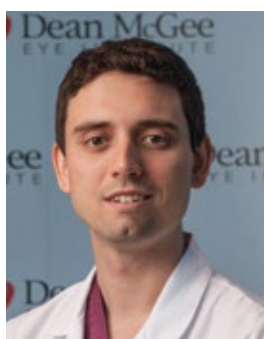
JAMES C. O'BRIEN, MD has completed three years of residency training and will enter a neuro-ophthalmology fellowship at the University of Oklahoma/Dean McGee Eye Institute. Dr. O'Brien served as Chief Resident for the 2016-2017 academic year.



DANIEL E. MONTENEGRO, MD has completed a one-year cornea fellowship and will join the faculty at the Kresge Eye Institute/Wayne State University in Detroit, Michigan.



ANDREW L. RODENBURG, MD has completed three years of residency training and will enter private practice as a comprehensive ophthalmologist in Bismarck, North Dakota.



MATTHEW D. COOKE, MD has completed a one-year glaucoma fellowship and will enter an academic practice with the Mayo Clinic Health System in Eau Claire, Wisconsin.

REMEMBERING

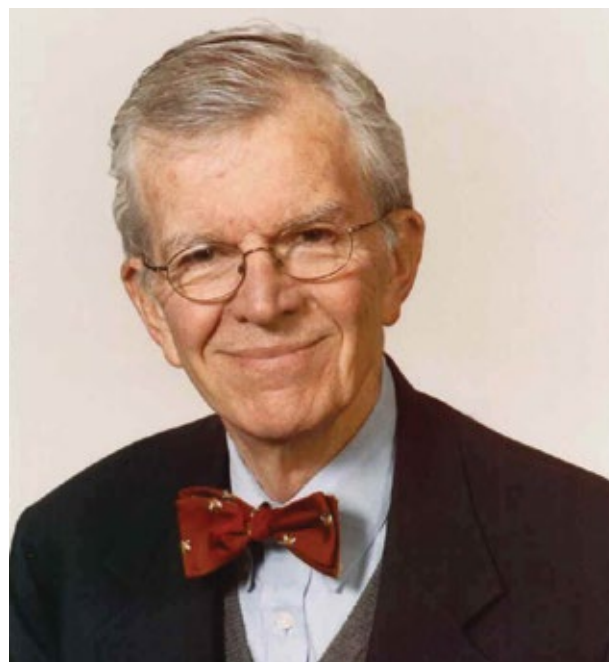
Robert G. Small, MD

1928 - 2017

DR. ROBERT G. SMALL, PROFESSOR EMERITUS AT THE DEAN MCGEE EYE INSTITUTE (DMEI) and in the University of Oklahoma (OU) Department of Ophthalmology, passed away on Sunday, February 5. He was 89.

Dr. Small earned his undergraduate and medical degrees from Yale University, followed by a residency in general surgery. He later completed an ophthalmology residency at OU in 1967 (50 years ago this year), after which he served as Chief of the Ophthalmology Section at the Veterans Administration Hospital in Oklahoma City for more than 16 years. He served on the faculty in the OU Department of Ophthalmology for more than 30 years, rose to the rank of Professor in 1981, and assumed Professor Emeritus status in 2002. He received the Edward and Thelma Gaylord Faculty Honor Award for excellence in resident teaching in 1995.

Even after his retirement, Dr. Small faithfully attended Grand Rounds and remained engaged in resident and medical student education. He conducted the Orbital Anatomy Dissection Course for first-year ophthalmology residents (now overseen by Dr. Annie Moreau) for at least 45 years and, in 2012, while approaching his 85th birthday, was a nominee for the OU College of Medicine's Aesculapian Award for excellence in teaching in the category of Volunteer Faculty - Clinical Sciences. In December 2012, Dr. Small was honored for his 45 years of outstanding



contributions and commitment to education by the permanent establishment of the Robert G. Small, MD Resident Award for Medical Student Education, which recognizes an ophthalmology resident for excellence in medical student teaching.

At Dr. Small's memorial service on February 9, Dr. Gregory Skuta, DMEI's President and Chief Executive Officer, paid tribute to Dr. Small and shared, "Bob Small was a doctor's doctor and a gentleman's gentleman who presented himself with grace, dignity, good humor, world-class skill, and his signature bowties... How incredibly fortunate all of us have been to be touched by a life filled with such deep purpose and meaning. Bob Small's memory, spirit, friendship, positive influence, and inspiration will endure." ■

41st Annual DMEI Ophthalmology Symposium/ 38th Annual Tullos O. Coston, MD Lecture, & 1



Pictured (left to right): Gregory L. Skuta, MD, - President, CEO, and Planning Committee Member, Jorge I. Calzada, MD, FACS - Distinguished Guest Lecturer, David F. Chang, MD - 38th Tullos O. Coston, MD Lecturer, and Steven R. Sarkisian Jr., MD - Symposium Chair share a moment at the June 2 dinner honoring Drs. Chang and Calzada.

DAVID F. CHANG, MD DELIVERED THE 38TH TULLOS O. COSTON, MD LECTURE

on June 3 as part of the 41st Annual DMEI Ophthalmology Symposium/OU Resident and Alumni Meeting. His Coston Lecture was entitled “The Greatest Challenge in Cataract Surgery (Needed: A 5-Minute, \$25 Cure for Blindness).” He also delivered a second lecture, “New Cataract Technologies – What Will This Next Year Bring?”

One of the world’s most respected cataract surgeons and surgical educators, Dr. Chang is Clinical Professor of Ophthalmology at the University of California, San Francisco (UCSF). He is also past president of the American Society of Cataract and Refractive Surgery (ASCRS), has received that Society’s prestigious Binkhorst Medal, and has been recognized with numerous other major awards and named lectureships throughout the world. Dr. Chang also is an active leader in the American Academy of Ophthalmology

OU Resident and Alumni Meeting, 4th Annual Acers Society Reception

and, in 2014, was voted one of the top five most influential ophthalmologists in the world by the international readership of *The Ophthalmologist*.

A graduate of Harvard College and Harvard Medical School, Dr. Chang completed his residency in ophthalmology at UCSF. He has authored or co-authored nearly 100 peer-reviewed publications and 60-plus book chapters, has served as the editor of multiple publications and textbooks, and is a member of several editorial boards.

Dr. Chang was joined on the program by Jorge Calzada, MD, FACS, a highly respected retina surgeon and Clinical Associate Professor at the University of Tennessee's (UT's) Hamilton Eye Institute in Memphis. His presentations were

entitled "Complex Retinal Detachments" and "The Future of Retinology."

A native of Panama, Dr. Calzada was class valedictorian at the University of Panama School of Medicine, completed his ophthalmology residency training at UT-Memphis, and was later a vitreoretinal surgery fellow at the Charles Retina Institute in Memphis, of which he is now the president. The recipient of numerous awards and honors, Dr. Calzada serves on the editorial board of *Highlights of Ophthalmology* and has co-authored the fourth and fifth editions of the textbook *Vitreous Microsurgery*.

We are grateful to Drs. Chang and Calzada for their extraordinary contributions to the success of this year's Symposium! ■



**SAVE THE DATE! Next year's meeting is
scheduled for Friday/Saturday, June 1-2, 2018.**

39th Tullos O. Coston, MD Lecture (June 2)

Anne L. Coleman, MD, PhD

*Fran and Ray Stark Professor of Ophthalmology
Vice Chair of Academic Affairs, Department of Ophthalmology
Professor of Epidemiology
Stein Eye Institute
David Geffen School of Medicine
University of California at Los Angeles*

Resident/Alumni Awards

As part of the Dean McGee Eye Institute's 41st Annual Resident/Alumni Day, the recipients of a number of awards were announced at the reception and dinner at Devon Tower on the evening of Saturday, June 3:



ROBERT G. SMALL, MD RESIDENT AWARD FOR MEDICAL STUDENT EDUCATION

Andrew L. Rodenburg, MD (left), shown with Gregory L. Skuta, MD.



DR. AND MRS. THOMAS E. ACERS RESIDENT HONOR AWARD

Joshua F. Hendrix, MD (left), shown with Ann Acers Warn, MD, MBA (right).



EXCELLENCE IN ATTENDING AT VA AWARD

Layne E. Goetzinger, MD (center), shown with graduating residents (left to right) Drs. Rodenburg, O'Brien, Sluch, and Fay.



ANNIE MOREAU, MD FELLOW TEACHING AWARD

Matthew D. Cooke, MD (center), shown with graduating residents (left to right) Drs. James C. O'Brien, Andrew L. Rodenburg, Eli Sluch, and Clifton C. Fay Jr.



EDWARD AND THELMA GAYLORD FACULTY HONOR AWARD

Brian K. Firestone, MD (center), shown with graduating residents (left to right) Drs. O'Brien, Rodenburg, Sluch, and Fay.

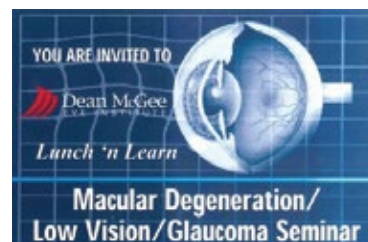


SAVE THE DATE
Friday, October 13, 2017

Macular Degeneration/Low Vision/ Glaucoma (MDLVG) Seminar

PLEASE JOIN US for this informative seminar to learn from the Dean McGee Eye Institute faculty and an occupational therapist and hear about the latest adaptive devices and technology for those experiencing low vision.

If you would like to be added to the mailing list for this seminar, please call 405.271.7801



DMEI Distinguished Visiting Lecturers



C. Gail Summers, MD (center), Professor and Director, Pediatric Ophthalmology and Strabismus, University of Minnesota, Minnesota Lions Children's Eye Clinic, was DMEI's Distinguished Lecturer on January 9. She is pictured above with DMEI's residents. Her Grand Rounds Guest Lecture was entitled "Why Can't My Baby See?"



Jeffrey A. Nerad, MD (right), Cincinnati Eye Institute, and Volunteer Professor, University of Cincinnati, was DMEI's Distinguished Lecturer on March 6. Dr. Nerad is a highly respected oculoplastic surgeon and past president of the American Society of Ophthalmic Plastic and Reconstructive Surgery.



Michael F. Chiang, MD (center), Knowles Professor of Ophthalmology and Medical Informatics and Clinical Epidemiology, Casey Eye Institute-Oregon Health and Science University, was DMEI's Distinguished Lecturer on May 1. His Grand Rounds Guest Lecture topic was "Electronic Health Records and Big Data: Promises, Challenges, Solutions."

HELEN HOWELL HONORED BY RESIDENT COUNCIL



Pictured (left to right): James C. O'Brien, MD, Ophthalmology Chief Resident in 2016-2017; Helen F. Howell, Ophthalmology Residency Program Coordinator; and Jennifer P. Rodney, MD, Chair of Resident Council.

IN MAY, HELEN HOWELL WAS RECOGNIZED AS EMPLOYEE OF THE MONTH by the University of Oklahoma (OU) College of Medicine's Resident Council.

Howell joined the Dean McGee Eye Institute (DMEI)/OU Department of Ophthalmology in April 2014 as its Residency Program Coordinator. Prior to that, she worked from October 2010 to April 2014 as the Fellowship Coordinator in the Section of Emergency Medicine, Department of Pediatrics. Her first role on the OU Health Sciences Center campus was as the Fellowship Coordinator in Hematology/Oncology from April 2006 to October 2010.

Helen Howell is loved and highly respected by everyone with whom she works, and we congratulate her on this well-deserved recognition! ■

DR. VICTORIA A. BUGG received the 2017 Dean McGee Award in Ophthalmology as the most outstanding OU College of Medicine graduating medical student in this specialty area. She will begin her ophthalmology residency at the Dean McGee Eye Institute/OU Department of Ophthalmology in July 2018. ■

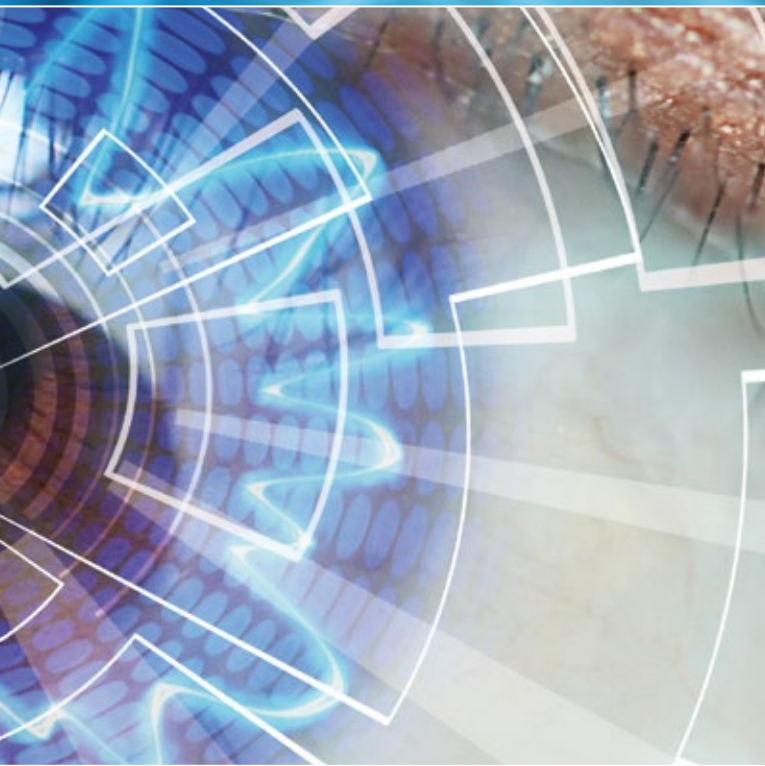




HELPING MORE PATIENTS WITH

Premium Services

BY APRIL WILKERSON



IN AN IDEAL WORLD, PEOPLE WOULD RETAIN THEIR ABILITY THROUGHOUT LIFE TO SEE FAR-OFF, MID-RANGE AND UP-CLOSE WITHOUT GLASSES.

In the past, that concept would have been unthinkable, but because of new technology and significant expertise, the Dean McGee Eye Institute (DMEI) can help people meet their visual needs throughout the aging process.

DMEI's premium services represent a growing part of the Institute's offerings, provide patients with a broad range of choices and can significantly improve a person's quality of life.

Premium Cataract Services

Cataract surgery is an area that has seen major advancements. Standard cataract surgery involves implanting a new lens implant with a specific target in mind – the patient's near vision or distance vision will be optimized, but not both. Premium services add several levels of improvement according to a patient's needs.

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CATARACT SURGEONS (FOR ADULTS)

Andrew K. Bailey, MD
John M. Bell, MD
Cynthia A. Bradford, MD
Alexander Davis, MD, PhD
Brian K. Firestone, MD
Garett S. Frank, MD
Layne E. Goetzinger, MD
Jean R. Hausheer, MD, FACS
Ralph B. Hester III, MD
David W. Jackson, MD
Mahmoud A. Khaimi, MD
Steven R. Sarkisian Jr., MD
Rhea L. Siatkowski, MD
Ann A. Warn, MD, MBA

LASIK/REFRACTIVE SURGEONS

Alexander Davis, MD, PhD
Garett S. Frank, MD
Jean R. Hausheer, MD, FACS
David W. Jackson, MD

CORNEAL CROSS-LINKING

Alexander Davis, MD, PhD
Garett S. Frank, MD
Rhea L. Siatkowski, MD

Monovision, in which one eye sees at a distance and the other up close, represents one approach to achieving distance and near vision with standard cataract surgery. In stepping outside the realm of standard surgery, the correction of astigmatism is an important advance and can be accomplished in two ways. One is through the use of a femtosecond laser, appropriate for patients with mild astigmatism. For greater degrees of astigmatism, a lens implant called a toric lens is used. The ultimate step in premium cataract services is a multifocal lens implant which provides good vision at distance and near (and in between).

“Every step that we take in premium services, we’re working toward eliminating a patient’s dependence on glasses,” said Ralph B. Hester III, MD, who performs a large number of cataract surgeries for DMEI patients in Oklahoma City both at the McGee Eye Surgery Center (MESCC) and at INTEGRIS Baptist Medical Center. He is one of 12 DMEI surgeons who performs adult cataract surgery in Oklahoma City and Edmond. At DMEI in Lawton, Ann A. Warn, MD, MBA, and Jean R. Hausheer, MD, FACS also perform cataract surgery, including premium cataract surgery.

“...we're working toward eliminating a patient's dependence on glasses.”

Over the past decade, multifocal lens implants have undergone significant improvements, Dr. Hester said. Rather than simply helping patients to see at multiple ranges, one of the newest multifocal implants, Symphony®, provides an enhanced depth of focus. Symphony® features an echellete design – concentric rings – to enhance vision.

“If you look at the lens under a microscope, it looks like a target,” Dr. Hester said. “Each of the rings of the target focuses an image at a different place inside your eye.”

Another multifocal lens offered at DMEI, although used less frequently, is called Crystalens®. It gives people the ability to see at all three ranges by moving and flexing with the eye in response to the movement of the eye's focusing muscle.

Because DMEI is a large organization with multiple surgeons and high surgical volumes, it also can offer technology that helps ensure the accuracy of surgical outcomes. The ORA® aberrometer is a device being used in premium cataract surgery to achieve the best results for a specific patient. All patients planning to have cataract surgery go through a series of tests that guide physicians to pick the correct strength of intraocular lens. However, the aberrometer provides “real time” measurements during surgery, which enhance accuracy and significantly reduce the possibility of error.

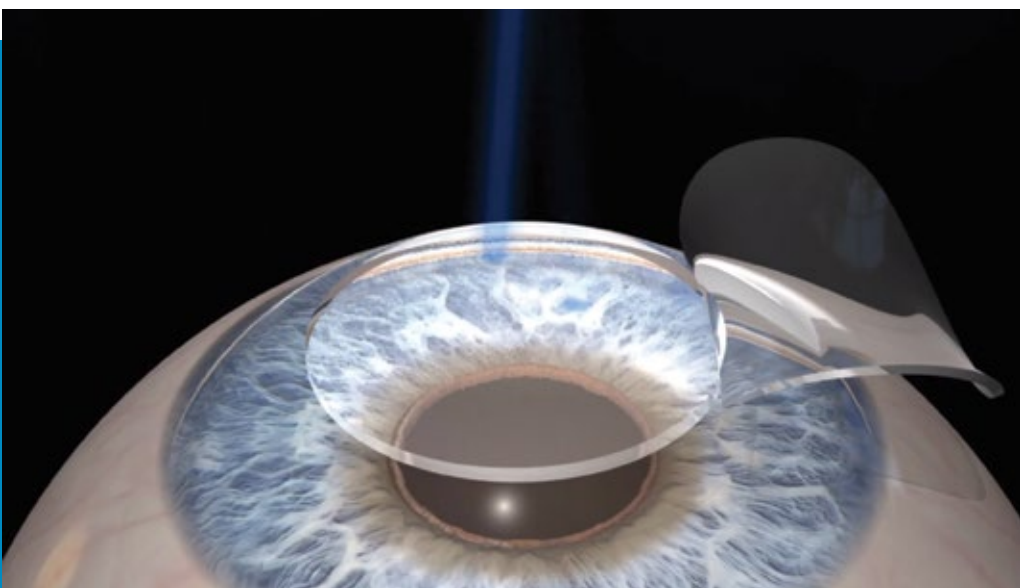
LASIK Vision Correction

People between ages 20 and 40 are often good candidates for LASIK (Laser-Assisted In-Situ Keratomileusis), which can be used to correct nearsightedness or farsightedness, with or without astigmatism. In LASIK, precise surgical technology is used to create and lift a thin flap of corneal tissue. When this flap is lifted, the surgeon uses an excimer laser to reshape the

underlying corneal tissue and correct the vision problem. The flap is then placed back over the cornea and heals quickly without stitches.

Traditionally, a microkeratome blade has been used to cut the flap for LASIK. However, specialists at DMEI offer bladeless LASIK using a femtosecond laser to cut the flap. The laser fires focused, ultra-short bursts every millionth of a billionth of a second that allow the surgeon to dissect tissue at the microscopic level, virtually eliminating collateral damage to other tissue. This gives the surgeon the ability to customize the procedure for each patient with regards to the shape, orientation, and size of the flap and decreases risks associated with using a surgical blade.

“The femtosecond laser is more precise, and I think the recovery time is better for patients,” said Garrett S. Frank, MD, one of several surgeons who performs LASIK vision correction at DMEI.



LASIK Vision Correction

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Dr. David Jackson performing Raindrop® Near Vision Inlay surgery.



New Technologies and Combinations

For patients whose distance vision is good but who have started losing near vision as they age, a brand-new technology is available: the Raindrop® Near Vision Inlay. Raindrop® is a

tiny, transparent disc that is placed over the pupil of the non-dominant eye after a LASIK flap is created.

“The Raindrop® disc is made of 80 percent water and is the size of the head of a pin,”

said David W. Jackson, MD, who performs the procedure and is Medical Director at DMEI's Stephenson Refractive Surgery/Laser Center.

"Clinical trials showed that it gave five lines of improvement in near vision. You might lose a line of distance vision, but you're going to gain an average of five lines of near vision."

Another new procedure receiving recent Food and Drug Administration (FDA) approval is called corneal collagen cross-linking. This technique is used to treat progressive degeneration of the cornea, most commonly keratoconus, and a similar condition, post-LASIK corneal ectasia.

Corneal cross-linking is a surface procedure with minimal risks. It involves soaking the cornea with riboflavin (vitamin B2) for about 30 minutes, followed by an application of ultraviolet light. The interaction between the riboflavin and the ultraviolet light creates chemical bonds within the cornea to make it stronger.

"For many patients with corneal degenerations, their conditions are progressive," said Dr. Frank, who provides corneal cross-linking. "Often,

these patients are headed toward corneal transplantation. Corneal cross-linking is a nice way to prevent that from happening for many

patients. There is good data that shows the procedure stabilizes the progression of degeneration. We've had great results so far."

The future of premium services is exciting because several technologies and procedures likely will be combined for even greater patient benefit, Dr. Jackson said. He anticipates scenarios where LASIK will be used to give

patients good distance vision, supplemented by Raindrop® to regain their near vision. Or Raindrop® might be combined with premium cataract surgery to greatly minimize a patient's need for glasses.

"These technologies work well together, and this is an exciting time when several procedures are coalescing for the patient's benefit," Dr. Jackson said. "We have something for people at every stage of their lives, and we pride ourselves on providing quality care for patients before, during and after their treatments. Our patients often come to us in their 20s and continue coming their whole lives. We now have the ability to provide all their refractive needs." ■

“...we pride ourselves on providing quality care for our patients before, during and after their treatments.”





Choose care from a name you trust—the doctors at the Dean McGee Eye Institute can lead you along the path to better vision.

• DMEI • inVision

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LipiFlow® Dry Eye Treatment p. 5

Patient—Grateful for the Gift of Sight—Gives Back p. 24

Remembering Robert G. Small, MD p. 39

Helping More Patients with Premium Services p. 46