MCPHERSON
EYE RESEARCH INSTITUTE

2018
ANNUAL REPORT

2019
CALENDAR

MERI
UW–MADISON

Dear Friends of the McPherson Eye Research Institute

Every year we discuss which research areas to highlight, and it is invariably one of our most enjoyable and difficult tasks. McPherson ERI investigators explore many different aspects of vision, develop cutting-edge technologies, and design novel therapeutics.

Gene editing is a highly promising approach that is likely to lead to dramatic advances in treating eye disease. As such, it is of great interest to our researchers and the many "hopeful patients" with whom McPherson Eye Research Institute scientists and staff regularly interact. Many live with progressive vision loss from diseases such as retinitis pigmentosa and severe age-related macular degeneration, where transformative therapies remain to be realized. The McPherson ERI exists to address this need by attacking every step of the process – from basic discovery to clinical trials.

In addition to advancing the science and medicine of vision preservation and restoration, the Institute is remarkable in its dedication to understanding visual perception. This commitment extends to the appreciation and celebration of the visual arts. Since its opening in 2014, the Institute's Mandelbaum & Albert Family Vision Gallery has brought more than a dozen outstanding vision- and science-related art exhibits to the Wisconsin Institutes for Medical Research (WIMR). This year's calendar features a fantastic range of artworks from past Vision Gallery shows. To the right, you'll meet two dedicated volunteers who curate these exhibits, bolstered by the creative energy and enthusiasm of fellow Vision Gallery Committee members. If you live in or visit Madison, we encourage you to stop by the 9th floor and enjoy the diverse and creative displays.

In bringing together science and art, the McPherson ERI works to marry the *how* and the *why* of vision, and will continue to do so. As always, we're grateful for your help and support, and we wish you a wonderful 2019.

David M. Gamm, MD, PhD
RRF Emmett A. Humble Distinguished Director
Sandra Lemke Trout Chair in Eye Research

Rodney Schreiner

"The Vision Gallery is a window which affords views in both directions. It allows the public to see through the visual arts into the realm of vision science, and it provides vision scientists a view into varieties of artistic expression. Community visitors experience how artists use visual tools to communicate stories, evoke memories, and elicit emotions. Vision scientists witness how their expanding understanding of vision corresponds with the tools that artists use. The gallery brings scientists and laypeople together to explore links between science and the arts. Personally, I have been collecting art for over 50 years. By contemplating what in each work appeals to me, my collection has given me the opportunity to develop an understanding of my own perceptions and reactions – an opportunity the gallery provides both to me and to everyone who visits."

H. Adam Steinberg

"The best part of this gallery is that we are able to engage scientific researchers with actual art that helps them understand the actual research they are investigating in their labs. The gallery helps researchers appreciate how humans 'see' – in all of the various ways we can define that word, from the physical to the emotional. Scientists need daily visual reminders why the work they do is so important to humanity."

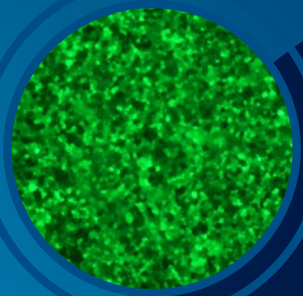
CELEBRATING 5 YEARS

MANDELBAUM & ALBERT FAMILY VISION GALLERY

Gene Editing

Gene editing is emblematic of what the McPherson Eye Research Institute does best – bringing together scientists from various disciplines to advance a cutting-edge field of research. As with other methods, our goal is to cure and treat blinding diseases. Gene editing has received much attention in the past few years, as it has greatly accelerated the "ease" and pace of lab work involving genetic manipulation. Using the gene editing tool CRISPR-Cas9, segments of genes can be "scissored" out from the larger genetic sequence, and potentially replaced (if necessary).

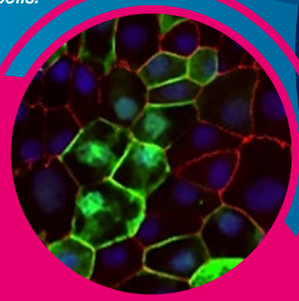
Other types of gene therapy have already moved to clinical trials. For instance, the FDA approved the first gene therapy for a rare, childhood-onset form of blindness last fall. Gene editing takes these therapies further, and offers hope in cases where standard gene therapy won't work. The investigations outlined on this page are a sampling of what is on our drawing board for genetic editing solutions in the foreseeable future.



Best disease patient-specific stem cell-derived RPE cells expressing Cas9 (Cas9 expression is indicated by green color).

Developing Gene Editing Therapies

Best disease (BD) is an inherited blinding disorder where patients progressively lose their central vision. The gene defect in BD causes improper formation of a cellular chloride channel that is required for normal RPE function. In a project involving the laboratories of **David Gamm**, **Krishanu Saha**, and **Bikash Pattnaik,** researchers tested the potential to use gene editing to treat BD using stem cell-derived 'BD-in-a-dish' models established by the Gamm lab. The research team, which also includes **Divya Sinha, PhD**, **Benjamin Steyer, PhD,** and **Pawan Shahi, PhD**, specifically targeted the defective copy of the gene to silence it. The strategy resulted in the complete restoration of chloride channel function, laying the groundwork for future clinical trials.



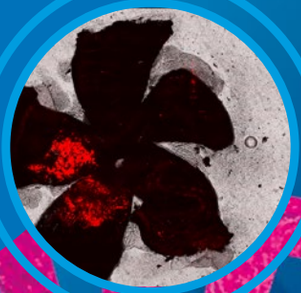
Restoration of the potassium channel protein (green) in diseased iPSC-RPE cells.

Targeting Specific Genes

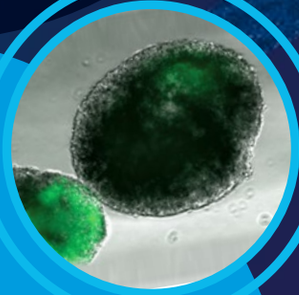
There is no "one size fits all" solution for faulty genes – each fix needs to be crafted for the specific "error" present in the patient's DNA. **Bikash Pattnaik** identified mutations in a potassium channel that is associated with Leber congenital amaurosis type 16 (LCA16), a childhood-onset blinding disease. Supported by gift funds and a grant from the National Eye Institute, Dr. Pattnaik and his McPherson ERI collaborators began by creating stem cell-derived RPE cells from patients with LCA16. These cells were used to understand the cause of the disease and to help the team develop gene therapy strategies. His lab then developed a mouse model of LCA16 to investigate whether particular drugs can overcome the gene mutation. Ambitious? Absolutely. Gene editing tools have magnificent potential, but like all tools, are dependent on the skill and foresight of the carpenter.

Gene Editing with Nanotechnology

In a collaboration that brings together four McPherson ERI researchers, **Krishanu Saha, PhD** (Biomedical Engineering) will use a new approach to gene editing to correct mutations in retinal pigment epithelium (RPE) cells. Traditionally, viruses have been used to carry CRISPR-Cas9 editing "machinery" to cells, but there are downsides to this strategy. Saha, along with **Shaoqin Sarah Gong, PhD** (Biomedical Engineering), **Bikash Pattnaik, PhD** (Pediatrics), and **David Gamm, MD, PhD** (Ophthalmology & Visual Sciences), will test the capacity of state-of-the-art nanoparticles to deliver the machinery in mutated mouse models and patient-derived stem cell models in a dish. The project, supported by a UW2020 Award from the Wisconsin Alumni Research Foundation and a Gund-Harrington Award, aims to extend the spectrum of disease where genomic medicine could succeed.



RPE tissue from murine eyes that have been edited with CRISPR nanoparticles. Red indicated a gene-edited cell near the site of injection.



Stem cell-derived 3D retinal tissue undergoing genome editing by the CRISPR system (cells undergoing genome editing show as green).

Quality Control for Gene Editing

It is the foundation of all medical procedures – "first, do no harm." A new UW-Madison project, also led by Krishanu Saha and supported by a major collaborative award from NIH, will help ensure safety by testing gene editing's effects on human retinal tissues created from pluripotent stem cells. Researchers will examine photoreceptors in these tissues using specialized imaging techniques, and then develop biomarkers for greater safety using imaging and gene sequencing methods. This is a powerful cross- campus and McPherson ERI-wide collaboration, with retinal tissue developed in the Gamm Lab; imaging techniques developed by **Melissa Skala, PhD** (Biomedical Engineering); electrophysiology by **Bikash Pattnaik, PhD** (Pediatrics); bioinformatics by **Sushmita Roy, PhD** (Biostatistics & Medical Informatics); and single cell analysis by **Rupa Sridharan, PhD** (Cell & Regenerative Biology).

MCPHERSON ERI

Scientists & Friends

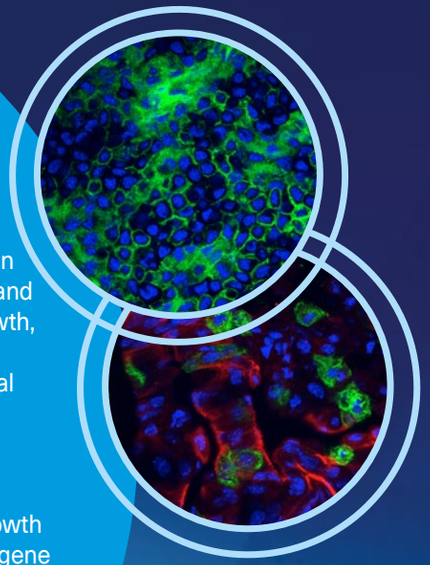
Sakae Ikeda, DVM

RESEARCHER

• *Medical Genetics* • School of Medicine and Public Health

As the main refractive element of the visual system, the cornea functions optimally when its surface is smooth and when it remains transparent and blood vessel-free. But a wide variety of infectious and inflammatory eye diseases can induce corneal scarring and blood vessel growth, comprising a major cause of blindness worldwide and underscoring the need for animal models of corneal diseases. Such models provide useful experimental systems for understanding the pathways underlying the normal maintenance of corneal integrity and function, as well as the causes of abnormalities.

Dr. Sakae Ikeda uses a unique mouse model, corneal disease 1 (corn1), that displays thickened epithelia, inflammation, and unwanted new blood vessel growth in the cornea. She and her research group identified that lack of the protective gene destrin—essential in regulation of the actin filament supporting cell structure and organization—results in the ensuing abnormal activation of the protein SRF. These paired factors are responsible for all corneal abnormalities observed in this mouse model. Understanding cellular and molecular changes that occur in the corneal surface in mice due to SRF activation will advance understanding of the causes of corneal disease in humans as well.



Cells from a normal mouse cornea (green, top) contrasted with abnormal, thickened cells from a diseased cornea (red).

James N. Ver Hoeve, PhD

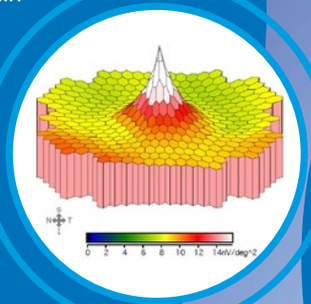
• *Ophthalmology and Visual Sciences*
• School of Medicine and Public Health

To assess visual function in non-verbal pediatric and adult patients as well as in basic research, Dr. Ver Hoeve uses non-invasive electrophysiologic measures: the electroretinogram (or ERG – the retina's electrical response to light) and visually evoked potential (or VEP – the response of the brain to visual stimulation). Because the electrical response of the retina is altered by genetic disorders in a similar way across species, Dr. Ver Hoeve can use electroretinography to assess visual function and dysfunction in both humans and animals. As a clinician-scientist, his current research interests include glaucoma, gene therapies, and disorders of myelin (a nerve cell insulator).

Translating the results of experimental treatments to cure eye diseases is greatly aided by the ERG. He has used the ERG to predict the safety and efficacy of numerous experimental eye drugs including gene-therapy for achromatopsia, the complete loss of color vision. In the clinic, the ERG is used to detect many different problems in retinal function, including inherited retinal diseases and drug toxicities.

The VEP is used to detect and manage pediatric vision problems including cataract and strabismus, which require intervention to prevent amblyopia ('lazy eye'). It is also a valuable tool in discerning vision health in developmentally delayed children. Dr. Ver Hoeve's expertise with these tools makes him a valued research collaborator.

RESEARCHER



A multifocal ERG recording from a human, at risk for vision loss due to a medication for rheumatoid arthritis. The sharp central peak corresponds to the increased sensitivity of the fovea.

Yao Liu, MD

RESEARCHER

• *Ophthalmology and Visual Sciences*
• School of Medicine and Public Health

As director of the Teleophthalmology for Diabetic Eye Screening Program, Dr. Yao Liu is working to improve access to diabetic eye screening for rural patients in order to prevent the blindness that can occur as a result of diabetic eye disease – the leading cause of blindness in working-age Wisconsin adults. Early detection and treatment are essential to avoid severe vision loss, and this pioneering program helps patients to get vision screening that is often hard to obtain in rural areas with limited medical services. This is the Wisconsin Idea in action, using university resources to advance vision health statewide.

As part of this program, specialized cameras are provided in primary care clinics so that patients with diabetes can be screened at their regular appointments. Photos of a patient's retina are sent electronically to UW eye doctors in Madison to check for diabetic eye disease. People needing treatment are rapidly scheduled with a local eye doctor in their community. In this way, Dr. Liu and her team have joined forces with rural patients and primary care doctors to better integrate teleophthalmology in primary care clinics, with the goal of increasing diabetic eye screening rates to the 90th-percentile nationally.

Gary Doering

People notice Gary Doering's presence, and sense of humor, very quickly. Gary is a natural leader, and for years served as moderator of the retinitis pigmentosa support group at the Wisconsin Council of the Blind and Visually Impaired (organized by Jean Kalscheur at the Council). His Cycle for Sight team, Blind Take Off – co-captained by Jim Tormey and Gerard Xavier – frequently helps with event publicity. Although he loves to joke, Gary has certainly had down times over the progression of his blindness. He credits others for getting him through – from the young woman who helped tape his broken cane together after he'd smashed it in frustration at an early DVR-sponsored retreat, to mobility trainer Marshall Flax (who helped Gary get around Baraboo and had the original idea for the RP support group), to the friend who hired him at Badger Paperboard after his previous job became too dangerous. But Gary has been determined to pay that assistance forward.

He first noticed that his night vision was worse than his teammates' while playing high school football. In his mid-20s, he started colliding with other guys on the basketball court. Gary was 27 when diagnosed with retinitis pigmentosa. Deterioration was slow over the next 15 years, but sped up in his forties, leading to near-total blindness, frustration, and that cane-smashing moment at a Wausau educational session. "That young lady came over and asked if I was okay – broke the cane, huh? – now what are you gonna do?" She handed Gary the athletic tape and said, "None of us want to be here – it's just who we are & what we have." "I told myself, it's time to get over it," Gary says.

Since then, Gary's life has filled with many things, including music as a fervent concertgoer and performer. He sings in three choirs, including the Barabrew, Wisconsing Beer Choir – "We drink beer while we rehearse, we drink beer while we perform – every song has a beer reference. We get some real nice participation...." He enjoys talking with his dozens of work clients, and he's mad about his family – wife Sherry, son Chris and daughter-in-law Sasha, grandson Kyan, 3, and new granddaughter Braya. He speaks to a 4th grade class about his blindness every year – "I love the questions that I get."

Gary has long supported vision research at the McPherson ERI – "You guys are doing great things, an hour from where I stand right now." What does he hope for? "If I could see color again, that would be awesome. I'd love to see my grandchildren's faces, but even if I could see the color of their hair.... I don't need the whole fix, but if I could see a blue sky, or the water at Devil's Lake." He knows it won't come overnight, but "I'm very optimistic that there are going to be big changes – not only for people with blindness, but for other diseases too."

HOPEFUL PATIENT

Leandro B. C. Teixeira, DVM, MS

- **Director, COPLOW** • ***Pathobiological Sciences***
- School of Veterinary Medicine

As the director of the Comparative Ocular Pathology Laboratory of Wisconsin (COPLOW), a world-renowned pathology laboratory that receives ocular tissues from many animal species and that harbors one of the largest ocular collections in the world, Dr. Teixeira manages more than 63,000 eye specimens ranging from insects to whales. The COPLOW lab is also a premier diagnostic pathology laboratory which provides services to veterinary ophthalmologists from all over the world.

As a veterinary pathologist, Dr. Teixeira focuses his research on the comparative aspects of animal and human ocular diseases. While his research involves assessment of the form and structure of retinal blood vessel diseases as well as comparative aspects of spontaneous ocular disease in animals, his main research interest is the study of the extracellular matrix (connective tissue) of the eye, and how changes in these matrices influence diseases like glaucoma and lens displacement in both animals and people.

Eyes of a mayfly.

RESEARCHER

Daniel M. Lipinski, DPhil

- ***Ophthalmology and Visual Sciences*** • Medical College of Wisconsin

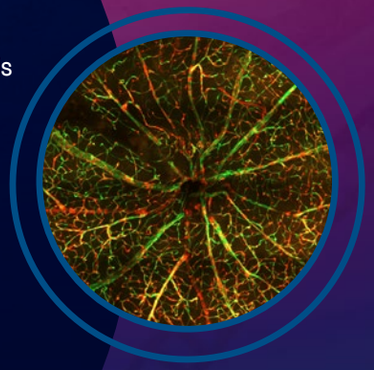
Dr. Daniel M. Lipinski directs the Ocular Gene Therapy Laboratory and is dedicated to the development of safe and effective gene therapy treatments to prevent vision loss in patients suffering from neurodegenerative or vascular (blood vessel) diseases affecting the eye. Since the early stages of his career, Dr Lipinski's research program has focused on the design of strategies to prevent death of cone photoreceptors – which are critical for daytime vision, color discrimination, and depth perception – in rare, inherited diseases such as retinitis pigmentosa and Usher syndrome.

More recently, Dr. Lipinski has spearheaded the development of long acting, single-use gene therapy treatments to preserve vision in patients with highly prevalent, complex ocular diseases such as diabetic retinopathy, age-related macular degeneration, and glaucoma.

With grant funding from the National Eye Institute and Foundation Fighting Blindness, Dr. Lipinski is committed to furthering vision science research by providing purified recombinant adeno-associated virus (rAAV) vector preparations—essential for successful gene delivery—and expert guidance on their use to collaborators worldwide.

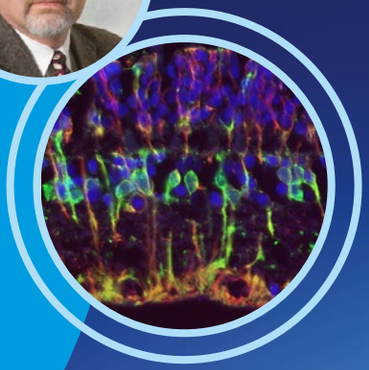
RESEARCHER

Retinal vasculature of a mouse, showing endothelial cells (green) and pericytes (red), which become abnormal in diabetic retinopathy.



Curtis Brandt, PhD

• **UW Medical Foundation Professor** • ***Ophthalmology and Visual Sciences***
• School of Medicine and Public Health



Gene therapies can only succeed when genetic changes are successfully delivered to the targeted cells. Dr. Curtis Brandt and his lab are studying various gene delivery strategies for ocular diseases, to better understand those that work – and equally importantly, those that may have negative effects. Recently they have shown that several types of viral delivery vector induce a transient inflammatory response (uveitis) when injected into non-human primate eyes. Although temporary, this undesirable side effect could negatively impact the gene therapy. The long-term goal of their work is to identify the mechanisms causing uveitis and develop ways to block it.

Uveitis begins within 24 hours of vector delivery, indicating that the inflammation trigger involves various sensor proteins that recognize components of the delivered viruses. The Brandt lab has shown that all 10 members of one of these sensor families, known as Toll-like Receptors (TLRs), are expressed in retinal cells. (In the accompanying image, the yellow shows TLR10 being expressed in Müller cells, which support retinal neurons). Blocking these sensor signals may be one approach to eliminating the unwanted inflammation.

RESEARCHER

RESEARCHER

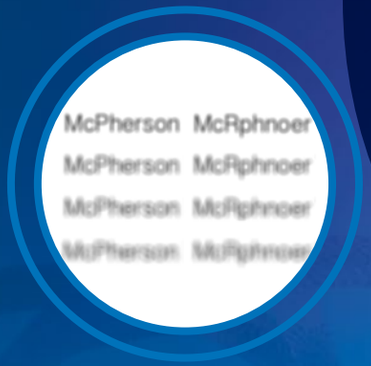
Gary Lupyan, PhD

• ***Psychology*** • College of Letters and Science

Gary Lupyan is a cognitive scientist with an interest in how what we see is shaped by what we know and expect. His interest in the visual bases of cognition is one aspect of his group's multifaceted work, along with broader questions of language function, origin, and connections to perception.

Human vision is highly constructive. Our visual system takes information from the outside world and combines it in complex ways with our long-term knowledge and our in-the-moment expectations. A perceptual system that is influenced by various kinds of information (including non-visual information) can be much "smarter" than a system that simply reacts to current visual input. For example, our knowledge that pumpkins are normally orange increases our sensitivity to detecting off-colored pumpkins; likewise, our visual knowledge of what various words look like can help us see their constituent letters. Understanding the extent to which vision is influenced by such factors can help us understand how people with different prior experiences and expectations can look at the same thing and see it differently.

*In a recent study, Dr. Lupyan found that when blurred letters are arranged into meaningful words, they are perceived as being sharper than when the same letters do **not** make up real words.*



HOPEFUL PATIENT

Melinda Dresen

Melinda Dresen knew early on that she wasn't going to be a game warden for the DNR, as she'd hoped. Diagnosed with juvenile macular degeneration in the third grade, she nevertheless majored in resource management and environmental sciences at UW-River Falls, and continued to kayak and hike as her vision worsened. Her sight deteriorated in steps, every 3-5 years. Ten years ago she started using a cane, working with McPherson ERI Advisory Board member Marshall Flax, as she has since third grade. ("Marshall gave me my first magnifier – When he put it in the book, it opened my world back up.") Her vision now is "like a digital photo if you blow it up to where it's pixilated, or like old-fashioned TV snow, with no center vision and random blind spots on the periphery."

In her job as Housing Resource Specialist at the Tenant Resource Center in Madison, Melinda works with many people in need of assistance and advice. (This was also true of her previous job, as site manager at Dryhootch in Madison, a nonprofit which assists veterans in adjusting to the return home). Blindness has motivated her to support others. "I kinda recognize that you have a path in life – things happen for a reason to help you become the person that you're supposed to be. It's not a punishment, it just helps you become a better person. I would not be as compassionate a person if it weren't for the challenges that I've had in my life."

Melinda rode in Cycle for Sight this year and is hopeful about the research. "It's absolutely fascinating – the thought that the next little 8-year-old will not have to go through some of the challenges that I've had to deal with – that they'll have different options in life – is amazing and just a relief." She's not passively waiting for change to happen. She remains active, taking her dog to the dog park and participating in adaptive climbing sessions at Boulders Gym. She expects her vision to worsen every few years – "You have to have a good sense of humor. When I start going through a decline, I tell people, I'm gonna bump into stuff. I can choose to find it funny, or not. I used to have a supervisor who was totally blind, and his big thing was 'You can be bitter or you can be better.'" Her message? "Most folks who are blind or visually impaired have very full, productive lives. Most are not sitting in a room waiting for life to happen to them – we're out in the world doing it. It may look different than we've thought. Does my life look different from that which my mom had imagined when I was a baby? It's okay, I'm still making it happen."

CELEBRATING 5 YEARS

MANDELBAUM & ALBERT FAMILY VISION GALLERY

Family members in whose honor the gallery is named include (from left) Eleanor & Daniel Albert; David & Karen Mandelbaum.

Intended to promote the interdisciplinary study of vision in the UW-Madison community and beyond, the Mandelbaum & Albert Family Vision Gallery serves as an active link between science, arts, and the humanities—providing a collaborative context for scientists, artists, and curators working at the intersections of visual art, visual processing, and vision science.

The creative, innovative, and dedicated people who have served with the Vision Gallery Committee during its first five years – designing and installing 14 exhibitions since March 2014 – have advanced McPherson ERI partnerships with UW Communications, Tandem Press, the Waisman Center, UW Zoological Museum, VSA Wisconsin, and Artworking, along with numerous individual artists on campus and in our community and state!

VISION GALLERY COMMITTEE

Eleanor Albert | Kate Baldwin | Ken Frazier | Martha Glowacki | Shiela Reaves | Rodney Schreiner | H. Adam Steinberg

CURRENT EXHIBITION

2018 COOL SCIENCE IMAGE CONTEST EXHIBITION

September – December 2018

Showcasing winning images from UW Communications' annual all-campus image contest

ENDOWED CHAIRS & PROFESSORSHIPS

AT THE MCPHERSON EYE RESEARCH INSTITUTE

Retina Research Foundation Emmett A. Humble Distinguished Directorship

David M. Gamm, MD, PhD

Director, McPherson Eye Research Institute • *Modeling and Treating Retinal Disease with Human Induced Pluripotent Stem Cells (hiPSCs)*

Sandra Lemke Trout Chair in Eye Research

Applications of stem cell technology to the study and treatment of age-related macular degeneration

Retina Research Foundation Walter H. Helmerich Research Chair

Kevin Eliceiri, PhD

Associate Director, McPherson Eye Research Institute • *Computational and Optical Approaches for Visualizing the Cellular Microenvironment of the Eye*

Retina Research Foundation Daniel M. Albert Chair

Barbara A. Blodi, MD

Adaptive optics imaging of human retinal function

Retina Research Foundation Kathryn and Latimer Murfee Chair

T. Michael Nork, MD, MS

Functional and Cellular Mechanisms of Ischemic Retinal Injury

Retina Research Foundation Edwin and Dorothy Gamewell Professor

Jeremy Rogers, PhD

Optical Instrumentation and Technology Platforms for the Study and Screening of Retinal Disease

Retina Research Foundation M. D. Matthews Research Professor

Bikash Pattnaik, PhD

Vision Loss Due to Ion-Channelopathy

Retina Research Foundation Rebecca Meyer Brown Professor

Mrinalini Hoon, PhD

How Synaptic Connections 'Wire' the Developing and Diseased Retina

Timothy William Trout Professorship in Eye Research

Akihiro Ikeda, DVM, PhD

Identification of Genetic Factors Affecting Aging of the Retina

Walsh Family Establishes New Vision Research Professorship

The chairs and professorships listed above will soon be joined by a new endowed position! In January 2018, the Walsh family, along with Dr. Alice McPherson and John and Tashia Morgridge (in a matching gift), pledged to establish the David and Nancy Walsh Family Professorship in Vision Research. This new professorship will be held by "a member of the McPherson Eye Research Institute in any school or department who is performing cutting-edge vision research." We are grateful to David and Nancy and their entire family, who are long-time friends of the Institute and dedicated champions of vision research (David Walsh served as the first chairman of the McPherson ERI Advisory Board).

JANUARY

ICE CRYSTALS BY MARISA S. OTEGUI (BOTANY), SMARTPHONE CAMERA

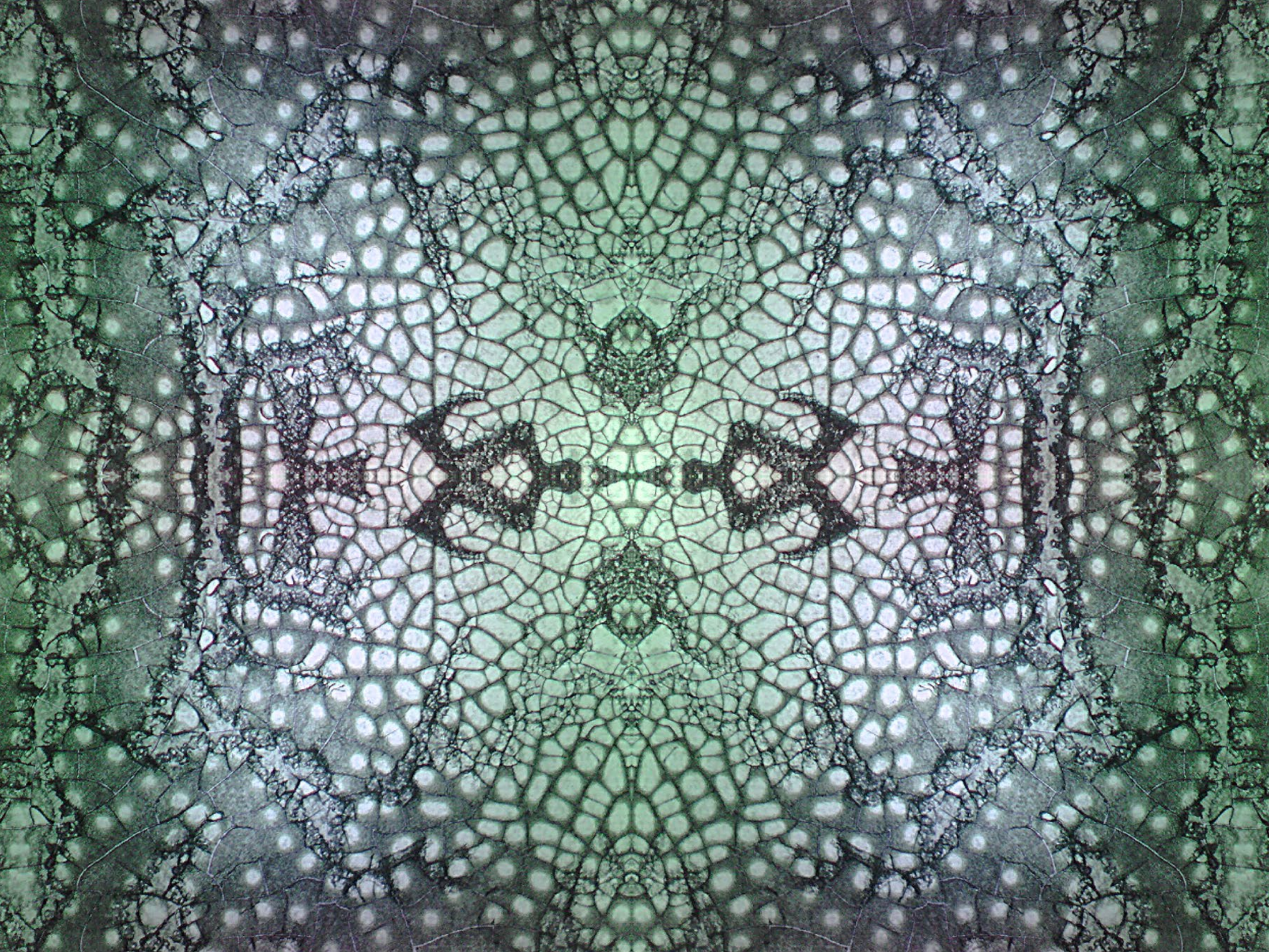
2015 COOL SCIENCE IMAGE COMPETITION WINNERS SEPTEMBER 10 – DECEMBER 18, 2015

The Why Files, in partnership with the McPherson ERI, displayed the winning images from its annual ***Cool Science Image Contest***. Scientists from across the UW-Madison landscape submitted intriguing images depicting objects or phenomena from diverse disciplines, which were judged on aesthetic and informational qualities.

DEC	SAT 1	SUN 2	MON 3	TUE 4	WED 5	THU 6	FRI 7	SAT 8	SUN 9	MON 10	TUE 11	WED 12	THU 13	FRI 14	SAT 15	SUN 16	MON 17	TUE 18	WED 19	THU 20	FRI 21	SAT 22	SUN 23	MON 24	TUE 25	WED 26	THU 27	FRI 28	SAT 29	SUN 30	MON 31

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
EVENTS / BIRTHDAYS / ADDITIONAL NOTES		1 NEW YEAR'S DAY	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21 MARTIN LUTHER KING, JR. DAY	22	23	24	25	26
27	28	29	30	31	EVENTS / BIRTHDAYS / ADDITIONAL NOTES	

FEB	FRI 1	SAT 2	SUN 3	MON 4	TUE 5	WED 6	THU 7	FRI 8	SAT 9	SUN 10	MON 11	TUE 12	WED 13	THU 14	FRI 15	SAT 16	SUN 17	MON 18	TUE 19	WED 20	THU 21	FRI 22	SAT 23	SUN 24	MON 25	TUE 26	WED 27	THU 28



FEBRUARY

BACTERIAL MANDALA WITH PERMISSION FROM ARTIST ANGELA JOHNSON

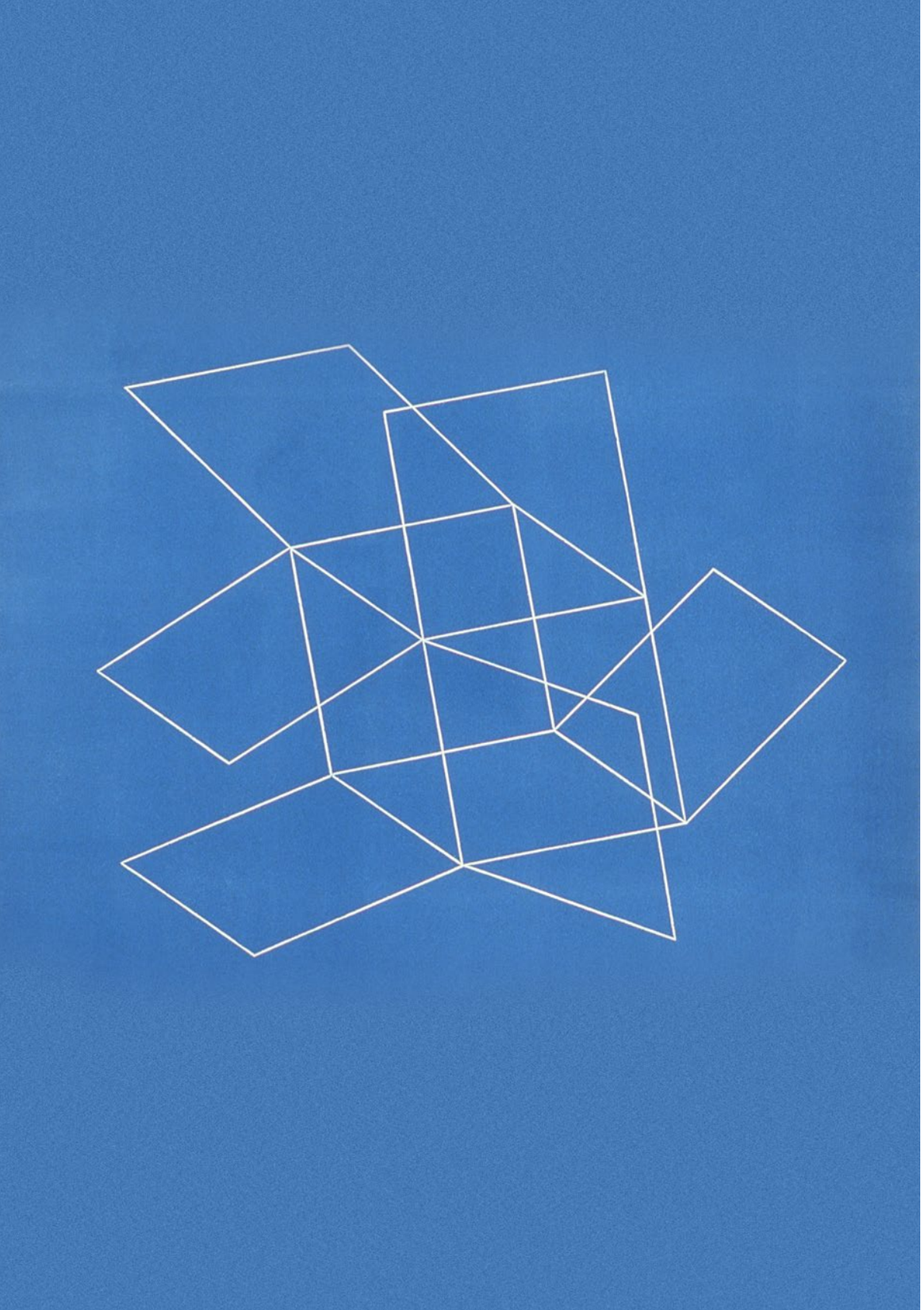
BETWEEN THE IMAGINED AND THE OBSERVED JUNE 10 – AUGUST 31, 2015

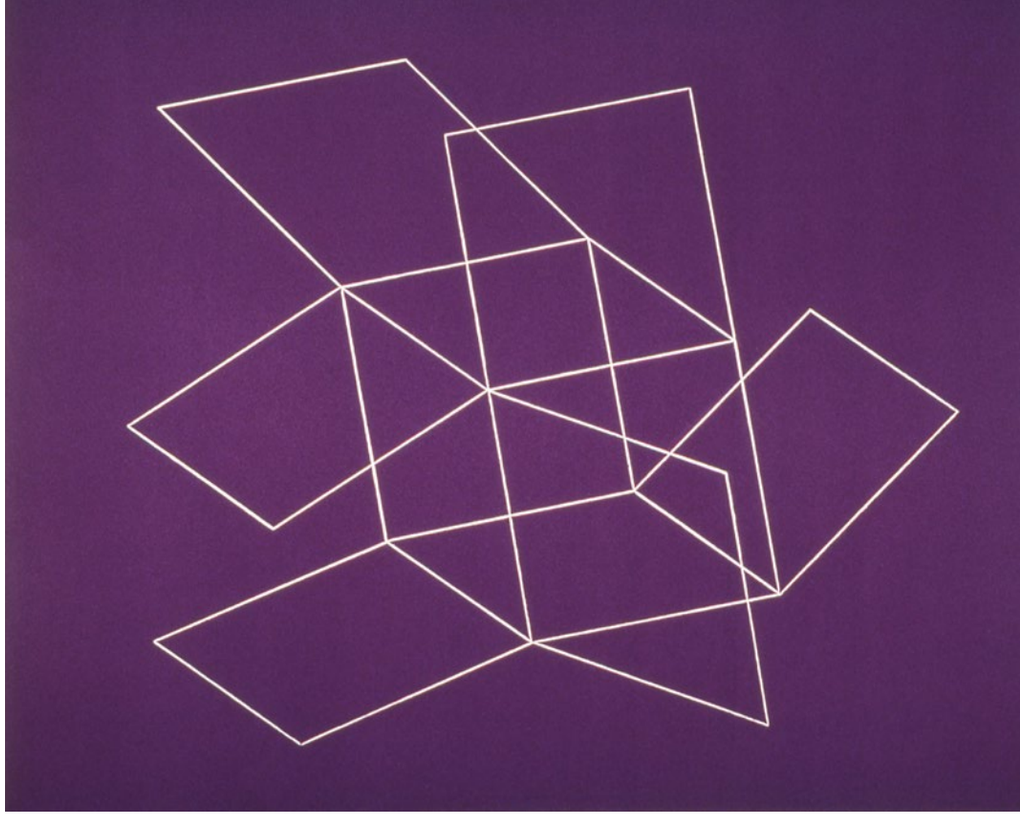
Paired photographic perspectives – ***Strange Specimens*** by Gregory Vershbow, and ***Translation*** by Angela Johnson – linked artistic and scientific methods of isolating and preserving specimens, facilitating observation for study and also for appreciation.

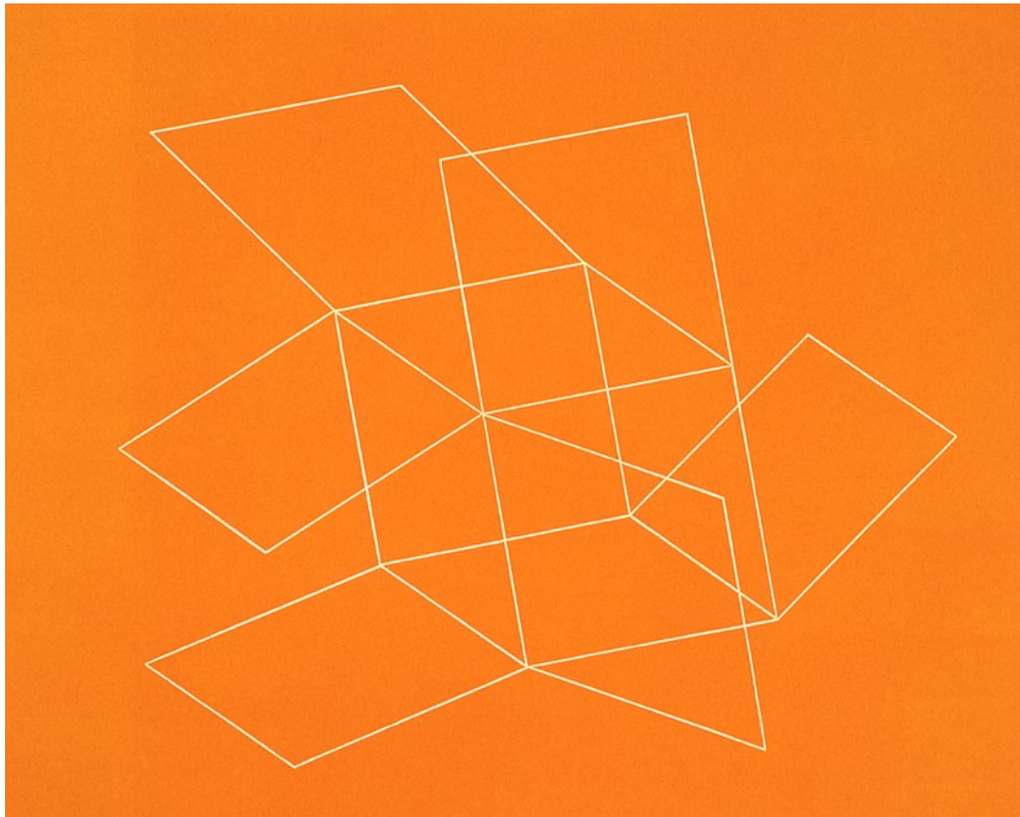
JAN	TUE 1	WED 2	THU 3	FRI 4	SAT 5	SUN 6	MON 7	TUE 8	WED 9	THU 10	FRI 11	SAT 12	SUN 13	MON 14	TUE 15	WED 16	THU 17	FRI 18	SAT 19	SUN 20	MON 21	TUE 22	WED 23	THU 24	FRI 25	SAT 26	SUN 27	MON 28	TUE 29	WED 30	THU 31

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
EVENTS / BIRTHDAYS / ADDITIONAL NOTES					1	2 GROUNDHOG DAY
3	4	5 CHINESE NEW YEAR	6	7	8	9
10	11	12	13	14 VALENTINE'S DAY	15	16
17	18 PRESIDENT'S DAY	19	20	21	22	23
24	25	26	27	28	EVENTS / BIRTHDAYS / ADDITIONAL NOTES	

MAR	FRI 1	SAT 2	SUN 3	MON 4	TUE 5	WED 6	THU 7	FRI 8	SAT 9	SUN 10	MON 11	TUE 12	WED 13	THU 14	FRI 15	SAT 16	SUN 17	MON 18	TUE 19	WED 20	THU 21	FRI 22	SAT 23	SUN 24	MON 25	TUE 26	WED 27	THU 28	FRI 29	SAT 30	SUN 31







MARCH

FLYING OPEN CUBE WITH PERMISSION FROM ARTIST PATRICK IRELAND AND TANDEM PRESS

THE DELIGHTED EYE MARCH 17 – AUGUST 23, 2014

In partnership with Tandem Press – a publisher of contemporary fine art prints and a unit of the UW-Madison Art Department – the McPherson ERI's inaugural exhibition highlighted shared goals of promoting research, collaboration, experimentation, and innovation in the respective fields of vision science and of printmaking.

FEB																											
FRI 1	SAT 2	SUN 3	MON 4	TUE 5	WED 6	THU 7	FRI 8	SAT 9	SUN 10	MON 11	TUE 12	WED 13	THU 14	FRI 15	SAT 16	SUN 17	MON 18	TUE 19	WED 20	THU 21	FRI 22	SAT 23	SUN 24	MON 25	TUE 26	WED 27	THU 28

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
EVENTS / BIRTHDAYS / ADDITIONAL NOTES					1	2
3	4	5 MARDI GRAS	6 ASH WEDNESDAY	7	8	9 MCPHERSON ERI CYCLE FOR SIGHT
10 DAYLIGHT SAVING TIME BEGINS	11	12	13	14	15	16
17 ST. PATRICK'S DAY	18	19	20 FIRST DAY OF SPRING	21	22	23
24 31	25	26	27	28	29	30

APR																													
MON 1	TUE 2	WED 3	THU 4	FRI 5	SAT 6	SUN 7	MON 8	TUE 9	WED 10	THU 11	FRI 12	SAT 13	SUN 14	MON 15	TUE 16	WED 17	THU 18	FRI 19	SAT 20	SUN 21	MON 22	TUE 23	WED 24	THU 25	FRI 26	SAT 27	SUN 28	MON 29	TUE 30

APRIL

DOUBLE SUNS OVER THE CAPITOL WITH PERMISSION FROM ARTIST PHIL PORTER AND ARTWORKING

SEEING BEYOND DISABILITIES: UNIQUE INSIGHTS JANUARY 19 – MAY 22, 2015

An exhibition partnering the UW Waisman Center, VSA Wisconsin, and Artworking with the McPherson Eye Research Institute. The exhibit shared visually powerful artworks, increasing awareness of the gifts of individual artists and awareness of organizations that advance arts opportunities for people with disabilities.

MAR																															
	FRI 1	SAT 2	SUN 3	MON 4	TUE 5	WED 6	THU 7	FRI 8	SAT 9	SUN 10	MON 11	TUE 12	WED 13	THU 14	FRI 15	SAT 16	SUN 17	MON 18	TUE 19	WED 20	THU 21	FRI 22	SAT 23	SUN 24	MON 25	TUE 26	WED 27	THU 28	FRI 29	SAT 30	SUN 31

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 APRIL FOOLS' DAY	2	3	4	5	6
7	8	9	10	11	12	13
14 PALM SUNDAY	15	16	17	18	19 GOOD FRIDAY PASSOVER BEGINS	20
21 EASTER	22 EARTH DAY	23	24	25	26	27
28 ORTHODOX EASTER	29	30	EVENTS / BIRTHDAYS / ADDITIONAL NOTES			

MAY																														
	WED 1	THU 2	FRI 3	SAT 4	SUN 5	MON 6	TUE 7	WED 8	THU 9	FRI 10	SAT 11	SUN 12	MON 13	TUE 14	WED 15	THU 16	FRI 17	SAT 18	SUN 19	MON 20	TUE 21	WED 22	THU 23	FRI 24	SAT 25	SUN 26	MON 27	TUE 28	WED 29	THU 30	FRI 31

MAY

SKY LILIES WITH PERMISSION FROM ARTIST ZAFUR GUREL

CATCHING THE EYE JUNE 20 – AUGUST 31, 2016

An exhibition exploring how vision research and the artistic eye align in artworks created or collected by members of the McPherson Eye Research Institute.

APR	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
EVENTS / BIRTHDAYS / ADDITIONAL NOTES			1	2	3	4
5 CINCO DE MAYO RAMADAN BEGINS	6	7	8	9	10	11
12 MOTHER'S DAY	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27 MEMORIAL DAY	28	29	30	31	

JUN	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

JUNE

FENCES WITH PERMISSION FROM ARTIST HOLLY COHN

ARTISTS AMONG US JUNE 18 – SEPTEMBER 4, 2018

This exhibition featured artworks from nine current or past faculty and staff of the University of Wisconsin-Madison, whose artistic pursuits are primarily avocation rather than vocation.

MAY	WED 1	THU 2	FRI 3	SAT 4	SUN 5	MON 6	TUE 7	WED 8	THU 9	FRI 10	SAT 11	SUN 12	MON 13	TUE 14	WED 15	THU 16	FRI 17	SAT 18	SUN 19	MON 20	TUE 21	WED 22	THU 23	FRI 24	SAT 25	SUN 26	MON 27	TUE 28	WED 29	THU 30	FRI 31

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
EVENTS / BIRTHDAYS / ADDITIONAL NOTES						1
2	3	4 EID AL-FITR	5	6	7	8 SHAVUOT BEGINS
9	10	11	12	13	14	15
16 FATHER'S DAY	17	18	19	20	21 FIRST DAY OF SUMMER	22
23 30	24	25	26	27	28	29

JUL	MON 1	TUE 2	WED 3	THU 4	FRI 5	SAT 6	SUN 7	MON 8	TUE 9	WED 10	THU 11	FRI 12	SAT 13	SUN 14	MON 15	TUE 16	WED 17	THU 18	FRI 19	SAT 20	SUN 21	MON 22	TUE 23	WED 24	THU 25	FRI 26	SAT 27	SUN 28	MON 29	TUE 30	WED 31

Special emotion
glasses
Sad emotions
annoyed
mad
Sad
Anxious
upset
frustraded
happy emotions
excited
Happy
Sassy
Smart
funny
Ayden Beatty
Age 13

JULY

MONTAGE OF DRAWINGS EXHIBITED

DO YOU SEE WHAT SEE? JUNE 19 – SEPTEMBER 6, 2017

This exhibition displayed drawings by children, youth, and adults – created in response to questions asking how we "see" or visualize things in our heads. What does ***science*** look like? If you lived on another planet, what would you see outside your window? What might a genetic mix between a human and a plant look like? If people could see emotions using "emotion glasses," what would YOU look like?

JUN																													
SAT 1	SUN 2	MON 3	TUE 4	WED 5	THU 6	FRI 7	SAT 8	SUN 9	MON 10	TUE 11	WED 12	THU 13	FRI 14	SAT 15	SUN 16	MON 17	TUE 18	WED 19	THU 20	FRI 21	SAT 22	SUN 23	MON 24	TUE 25	WED 26	THU 27	FRI 28	SAT 29	SUN 30

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2	3	4 INDEPENDENCE DAY	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	EVENTS / BIRTHDAYS / ADDITIONAL NOTES		

AUG																													
THU 1	FRI 2	SAT 3	SUN 4	MON 5	TUE 6	WED 7	THU 8	FRI 9	SAT 10	SUN 11	MON 12	TUE 13	WED 14	THU 15	FRI 16	SAT 17	SUN 18	MON 19	TUE 20	WED 21	THU 22	FRI 23	SAT 24	SUN 25	MON 26	TUE 27	WED 28	THU 29	FRI 30	SAT 31

The Fishes of Wisconsin
Fishes are Shown Average Adult Size

AUGUST

THE FISHES OF WISCONSIN WITH PERMISSION FROM ARTIST KANDIS ELLIOT AND THE UNIVERSITY OF WISCONSIN ZOOLOGICAL MUSEUM

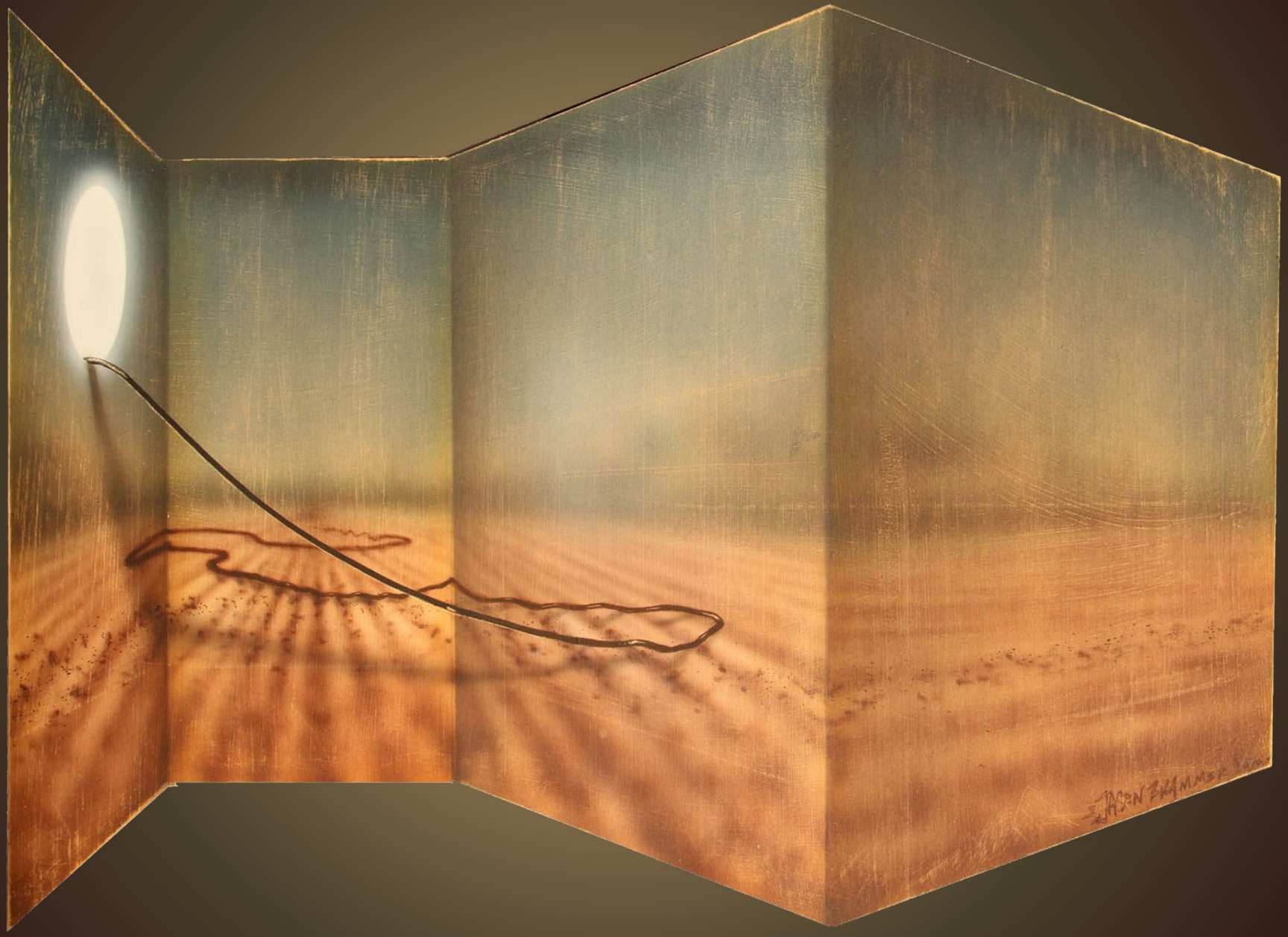
SHARED VISION: TALES OF SCIENCE ILLUSTRATION JANUARY 19 – MAY 20, 2016

Artistic works by UW-Madison-associated scientific illustrators revealed the transformations of "raw" scientific data into artwork that communicates scientific ideas. Illustrators from the Departments of Botany, Biochemistry, and Zoology were represented.

JUL	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
EVENTS / BIRTHDAYS / ADDITIONAL NOTES				1	2	3
4	5	6	7	8	9	10
11 EID AL-ADHA	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

SEP	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30


JASON BRAMMER

SEPTEMBER

THE MOON, MY PORTAL XII (FOLDING THE FUTURE)
WITH PERMISSION FROM ARTIST JASON BRAMMER

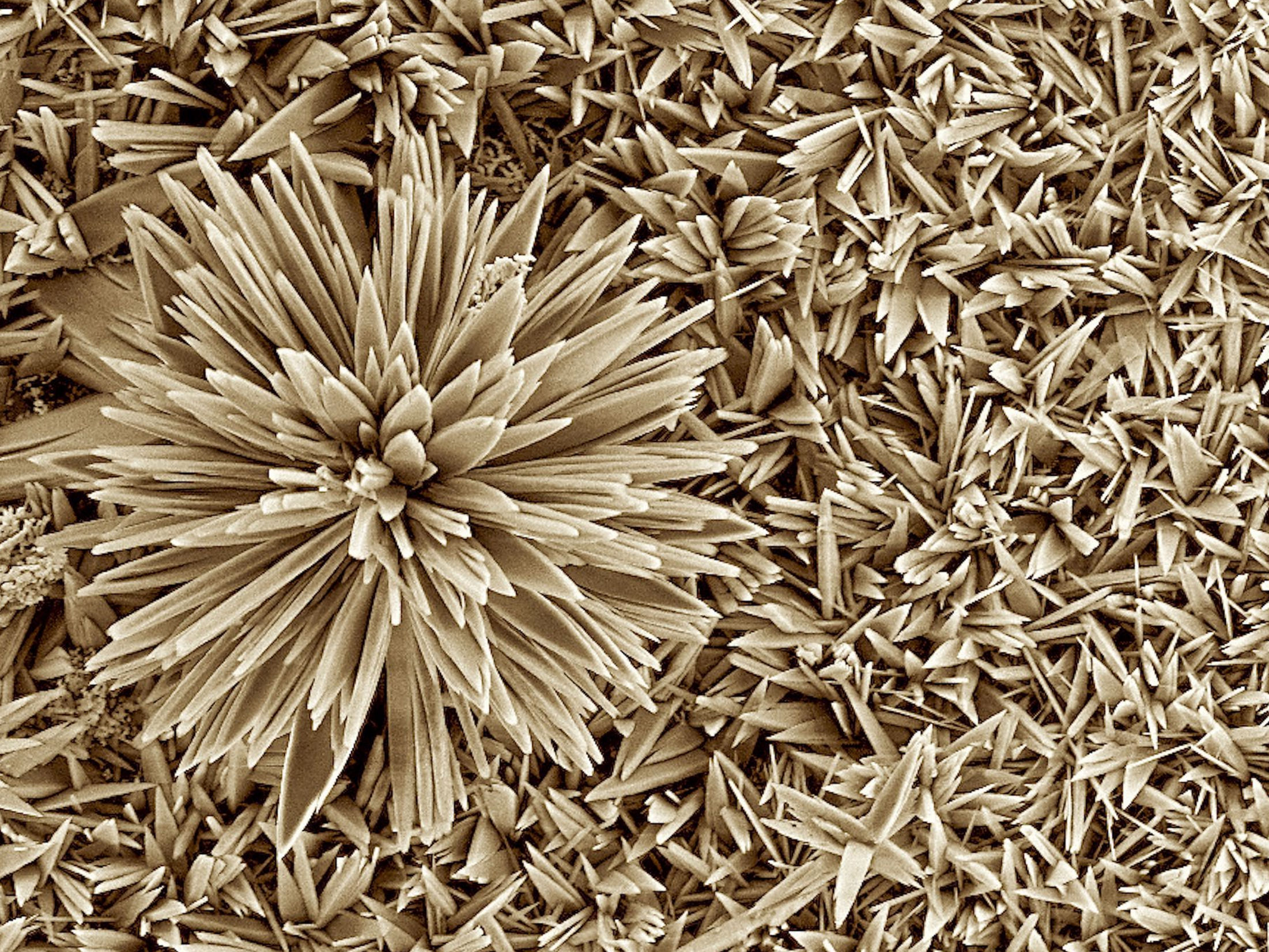
ART WORKS: VISUAL PERCEPTION AS A TOOL JANUARY 25 – MAY 25, 2018

Noting that artists use aspects of human perception as tools in creating their works, this interactive exhibition explored a variety of ways in which artists incorporate visual cues into their works. In our eye-brain vision system, dynamic cues including color, perspective, shadow, and contrast assist the brain in creating perceptions of a 3-dimensional world.

AUG																														
	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2 LABOR DAY	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23 FIRST DAY OF FALL	24	25	26	27	28
29	30 ROSH HASHANAH	EVENTS / BIRTHDAYS / ADDITIONAL NOTES				

OCT																														
	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31



OCTOBER

NANO-SCALE COPPER HYDROXY SULFATE BY ALLISON CARDIEL (WAISMAN CENTER), SCANNING ELECTRON MICROSCOPE

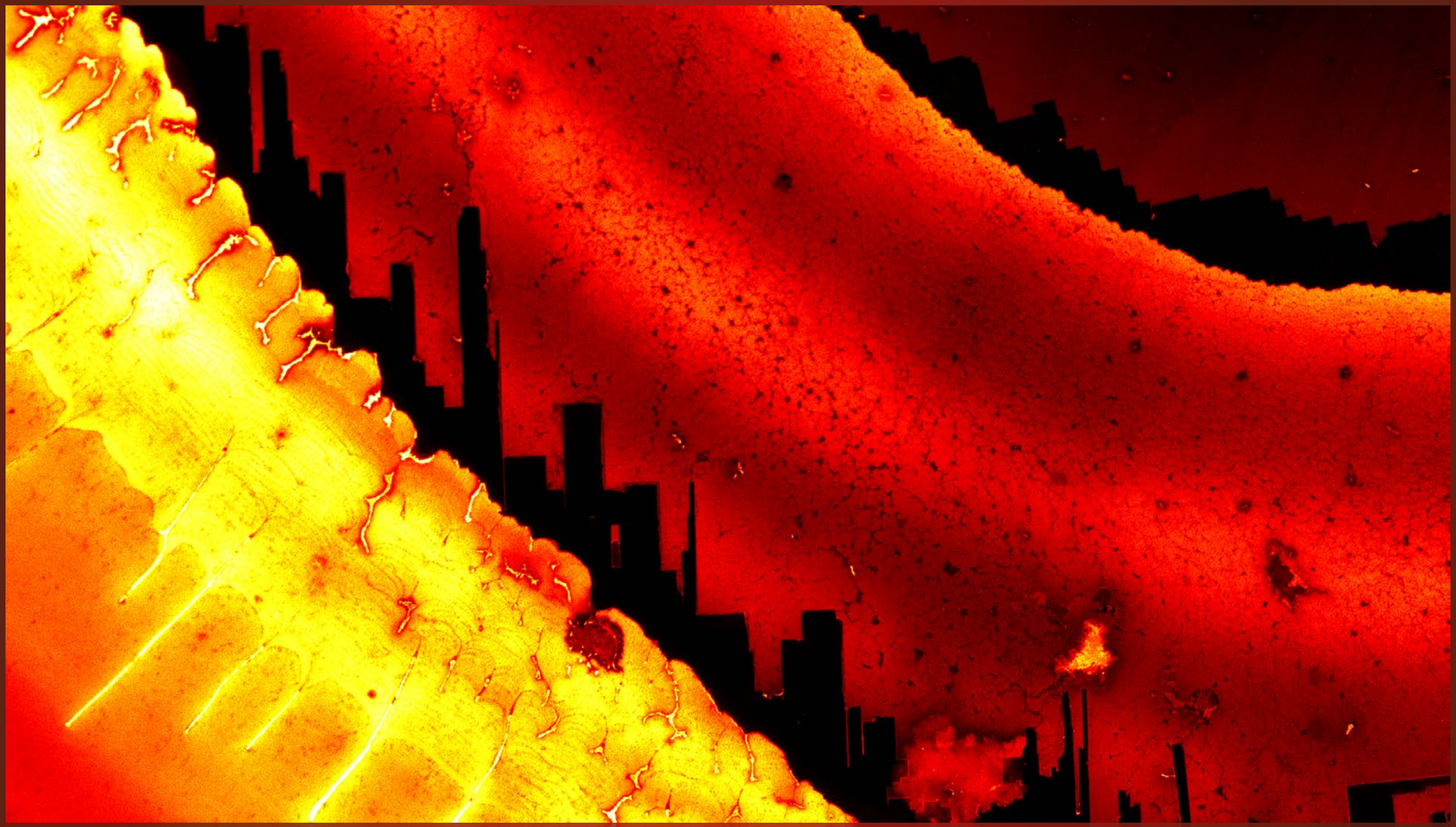
2017 COOL SCIENCE IMAGE COMPETITION WINNERS SEPTEMBER 22 – DECEMBER 20, 2017

University Communications partnered with the McPherson ERI to display winning images from the sixth annual UW-Madison ***Cool Science Image Contest***. The striking images illustrated oft-hidden features of the natural world – cells, molecules and stars among them – key to research and studies undertaken on campus.

SEP	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
EVENTS / BIRTHDAYS / ADDITIONAL NOTES		1	2	3	4	5
6	7	8	9 YOM KIPPUR	10 WORLD SIGHT DAY	11	12
13 SUKKOT BEGINS	14 COLUMBUS DAY	15 WHITE CANE SAFETY DAY	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31 HALLOWEEN	EVENTS / BIRTHDAYS / ADDITIONAL NOTES	

NOV	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30



NOVEMBER

CELLULOSE NANO-FIBERS BY THOMAS ELLINGHAM AND MAX SLICK, (WISCONSIN INSTITUTE FOR DISCOVERY), CONFOCAL MICROSCOPY

2014 COOL SCIENCE IMAGE COMPETITION WINNERS SEPTEMBER 2 – DECEMBER 11, 2014

This first exhibition of winning images from the UW-Madison ***Cool Science Image Contest*** – then sponsored by the popular science web magazine ***The Why Files***, and now by University Communications – introduced campus and community to the alluring but often unobserved imagery UW-Madison scientists use to convey their work.

OCT	TUE 1	WED 2	THU 3	FRI 4	SAT 5	SUN 6	MON 7	TUE 8	WED 9	THU 10	FRI 11	SAT 12	SUN 13	MON 14	TUE 15	WED 16	THU 17	FRI 18	SAT 19	SUN 20	MON 21	TUE 22	WED 23	THU 24	FRI 25	SAT 26	SUN 27	MON 28	TUE 29	WED 30	THU 31

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
EVENTS / BIRTHDAYS / ADDITIONAL NOTES					1	2
3 DAYLIGHT SAVING TIME ENDS	4	5	6	7	8	9
10	11 VETERANS DAY	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28 THANKSGIVING	29	30

DEC	SUN 1	MON 2	TUE 3	WED 4	THU 5	FRI 6	SAT 7	SUN 8	MON 9	TUE 10	WED 11	THU 12	FRI 13	SAT 14	SUN 15	MON 16	TUE 17	WED 18	THU 19	FRI 20	SAT 21	SUN 22	MON 23	TUE 24	WED 25	THU 26	FRI 27	SAT 28	SUN 29	MON 30	TUE 31

DECEMBER

FAMILY TREE WITH PERMISSION FROM ARTIST ANGELYNN BROWN

BRIGHT SIGHTS -- SIX WAYS OF SEEING JANUARY 23 -- MAY 26, 2017

In partnership with the Wisconsin Council of the Blind & Visually Impaired, this exhibition featured six Wisconsin artists whose visual impairments inspire and enrich their art. Works of remarkable depth and diversity included paintings, photographs, wood carvings, stained glass-on-glass, and encaustics.

NOV																														
	FRI 1	SAT 2	SUN 3	MON 4	TUE 5	WED 6	THU 7	FRI 8	SAT 9	SUN 10	MON 11	TUE 12	WED 13	THU 14	FRI 15	SAT 16	SUN 17	MON 18	TUE 19	WED 20	THU 21	FRI 22	SAT 23	SUN 24	MON 25	TUE 26	WED 27	THU 28	FRI 29	SAT 30

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21 FIRST DAY OF WINTER
22 HANUKKAH BEGINS	23	24 CHRISTMAS EVE	25 CHRISTMAS DAY	26 KWANZAA BEGINS	27	28
29	30	31 NEW YEAR'S EVE	EVENTS / BIRTHDAYS / ADDITIONAL NOTES			

JAN																														
	WED 1	THU 2	FRI 3	SAT 4	SUN 5	MON 6	TUE 7	WED 8	THU 9	FRI 10	SAT 11	SUN 12	MON 13	TUE 14	WED 15	THU 16	FRI 17	SAT 18	SUN 19	MON 20	TUE 21	WED 22	THU 23	FRI 24	SAT 25	SUN 26	MON 27	TUE 28	WED 29	THU 30	FRI 31

MCPHERSON EYE RESEARCH INSTITUTE

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Nancy Mills

"I believe eyesight is the facilitator in most human endeavors, and it is of the utmost importance to me personally. 'Preventing and curing blindness,' the core mission of the McPherson Eye Research Institute, is what drew me to this effort in the visual sciences. It is gratifying to experience the enthusiasm of scientists and scholars who are truly interested in working with each other, sharing their findings, and assisting each other in the development of ideas. It is in this atmosphere of cooperation that the greatest advances in biomedicine can be made and ultimately make significant differences for the greater good. The McPherson Eye Research Institute is truly the leader in making this difference."

Marshall Flax

"If you follow the idea of sifting and winnowing to its logical extreme, you arrive at the McPherson Eye Research Institute. It is a 'place' where the subject of vision is considered from as many points of view and from as many disciplines as our current state of knowledge can manage. I believe that it is this broad consideration of what vision is, and how it can be studied, that makes the Institute so powerful and so unique."

Carl Gulbrandsen

"I've known and admired Dr. David Gamm for many years. In just the short time I've been on the advisory board, I've been even more impressed by David's leadership and the support Dr. Alice McPherson and the Retina Research Foundation provide in pursuit of the McPherson Eye Research Institute's mission to prevent and cure blindness. The researchers engaged in the institute are of the highest caliber, and the research they are engaged in is simply amazing. All of them are mission-focused and committed to reaching that goal of curing and preventing blindness. As an advisory board member, to be able to help them achieve that goal is a great honor."

IN MEMORY & HONOR

Emmett A. Humble

[1925- 2018]

McPherson ERI Advisory Board, 2007-2014
Honorary Board 2014-2018

MCPHERSON EYE RESEARCH INSTITUTE

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CELEBRATING THE
RETINA RESEARCH FOUNDATION'S 50TH ANNIVERSARY!

In 2019, the Houston-based Retina Research Foundation – founded by Dr. Alice McPherson in 1969 – will reach its 50th Anniversary. We would like to congratulate the RRF, Dr. McPherson, and its Board of Directors on this landmark.

As its mission statement indicates, the Retina Research Foundation was established to further a critical goal: "to reduce retinal blindness worldwide by funding programs in research and education." For 50 years, its name has been synonymous with outstanding retinal research. As Dr. Paul Sieving, Director of the National Eye Institute, noted at an RRF 45th Anniversary Celebration (hosted by the McPherson ERI in 2014), "Private monies, such as the Retina Research Foundation provides, are vital, as these are strategic funds that are nimble and allow investigators to explore the cutting edge and to go into the unknown." These goals are shared by the McPherson Eye Research Institute, which was founded with Dr. McPherson's assistance and guidance in 2005. In the years since then, members of the RRF Board of Directors have visited Madison multiple times in order to discuss and advance our common goals. We are thrilled to join in recognizing Dr. McPherson and the RRF for their incredible achievements and profound impact on vision science.

Retina Research Foundation board members on a visit to Madison. L-R: Ron Girotto, Dr. David Gamm, John Dawson, Dr. Jim Key, Dr. Alice McPherson, Dr. Ben Orman, Dr. Bernard Hicks, Ames Smith, Dr. Petros Carvounis, Dr. Frank Eggleston

Vision scientists honoring the Retina Research Foundation on its 45th anniversary included, L-R: Drs. Daniel Albert, Matthew "Dinny" Davis, Alan Bird, Alice McPherson, Nansi Colley, David Gamm, John Dowling, and Paul Sieving.

LEFT: *L-R, Arthur Polans, John Dawson*
RIGHT: *L-R, Dr. Frank Eggleston, Dr. Monroe Trout, John Dawson*

Dr. McPherson's Gonin Medal on permanent display at UW-Madison

The Gonin Medal, the premiere international award in ophthalmology, given only once every four years, was presented to Dr. Alice McPherson in 2014.

The award recognized Dr. McPherson's work in pioneering scleral buckling procedures, cryotherapy, and xenon arc and laser photocoagulation in the treatment of retinal detachment. Dr. McPherson was an early and vigorous advocate of photocoagulation in the treatment of diabetic retinopathy, a controversial position that was later proven correct by a large, randomized NEI study.

In 2018, Dr. McPherson donated her Gonin Medal, along with the Gonin Certificate and supporting documentation, to the UW-Madison University Archives. As part of the Archives' collections, it joins historical materials from other distinguished UW alumni. The Gonin Medal will remain on permanent display in the home laboratories of the McPherson Eye Research Institute as an inspiration to the Institute's vision researchers. A dedication ceremony was held in April 2018, with Dean Robert Golden welcoming both McPherson ERI and Retina Research Foundation board members to view the Medal in its new home.

SAVE THE DATE

CYCLE FOR SIGHT 2019!

MARCH 9 2019

at the Princeton Club West, Capital Fitness, and the UW Natatorium.

More information is at
vision.wisc.edu/cycle

Cycle for Sight
2018

Cycle for Sight raised just over $56,000 for vision research at UW Madison, again surpassing last year's fundraising total and participation. 2018's prizewinning teams have led the pace in fundraising for several years, with Kenzi's Team again in the lead. Riding in honor and in memory of Kenzi Valentyn – and with one group of riders participating in Malaysia! – Kenzi's Team raised almost $20,000. Blind Take Off was again in second place, followed by Out of Sight and the Retinal Research Allstars (riding in memory of vision scientist Randie Schlamp).

Funds from Cycle for Sight support a variety of research awards and programs. We are particularly pleased to announce that 2019 will be the first year that we will present the newly-named Kenzi Valentyn Vision Research Trainee Grants. After competitive review, these awards will be given annually to outstanding selected graduate student and postdoc vision researchers. We're very grateful to the Valentyn family for their powerful support for vision research. And we're grateful to ALL of our Cycle for Sight participants, donors and sponsors for growing this event and advancing vision research at the McPherson ERI.

D. Dan Huh, PhD

LECTURES HELD IN 2018

Jeremy M. Wolfe, PhD

6TH ANNUAL MCPHERSON ERI ENDOWED LECTURE

"Microengineered physiological biomimicry: Human Organs-On-Chips"

HELD MAY 22, 2018

D. Dan Huh, PhD
Department of Bioengineering
University of Pennsylvania

10TH ANNUAL VISION SCIENCE LECTURE

"OMG, I did not see that!
The science of missing what is right in front of our eyes"

HELD OCTOBER 16, 2018

Jeremy M. Wolfe, PhD
Ophthalmology & Radiology | Harvard Medical School
Visual Attention Lab | Brigham & Women's Hospital

mGOe Foundation
Opsis therapeutics
Shopko Foundation
Princeton Club
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PRECOR Fitness Made Personal

WITH THANKS AND APPRECIATION

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For more information on how to partner with the McPherson Eye Research Institute in support of research, education and treatment advances in the visual sciences, please contact us.

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