

RETINA RESEARCH FOUNDATION NEWSLETTER

Foresight for Sight

December 2016

Issue Number 3 / Volume 38

Retina Research Foundation Newsletter is published three times per year: Spring, Summer and Fall.



*Happy
Holidays*

*The Board of Directors
and
Advisory Trustees
Retina Research Foundation*

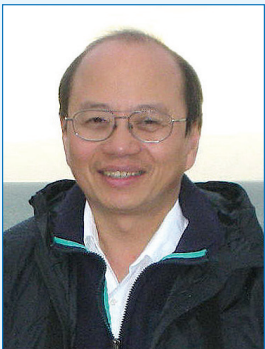
2016 RRF Award Recipients



Steve Charles, MD
RRF Award of Merit
*Presented at the Retina Society
Annual Meeting*



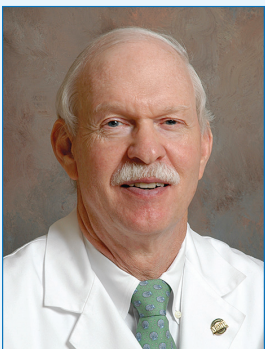
Donald J. D'Amico, MD
RRF Pyron Award
*Presented at the American Society of
Retina Specialists Annual Meeting*



King-Wai Yau, PhD
RRF Kayser International Award
*Presented at the International Society for
Eye Research (ISER) Biennial Meeting*



Thomas W. Gardner, MD
RRF Gonin Lecturer
*Presented at the Club Jules Gonin
Biennial Meeting*



Harry W. Flynn, Jr., MD
Charles L. Schepens, MD/AAO Award
*Presented by RRF and SIS at the American
Academy of Ophthalmology Annual Meeting*



Christine A. Curcio, PhD
RRF Macula Research Project
Administered by the Macula Society

For a complete list of RRF Award recipients, please view our website: retinaresearchfnd.org

December 2016

Dear Friends,

RRF is now beginning the forty-eighth year of working in collaboration with the finest organizations in ophthalmology to support programs of vision research and education. RRF programs follow many paths, but the target is the same for all: making progress in the fight against blindness.

In 1969 under the leadership of Dr. Alice McPherson, RRF was established by a group of dedicated lay people. Dr. McPherson saw the need for a foundation dedicated to eradicating retinal blindness, focused on basic science research, entirely funded by private donations, and managed primarily by concerned leaders of the community.

That model continues to this day, and your ongoing interest in and support of our mission is key to our success. If you have not yet given to RRF, we ask that you consider doing so now. We are grateful for your ongoing interest in working with us to achieve our goal of preserving vision worldwide.

As another year draws to a close, let us take this opportunity to wish you a very happy, healthy and joyful holiday season, and all the best in the New Year and for many years to come.

With best regards,

Frank K Eggleston, DDS

Frank K. Eggleston, DDS
Chairman of the Board

Ben F Orman

Ben F. Orman, MD
Fund Drive Chair



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e-mail: RRF@retinaresearchfnd.org • www.retinaresearchfnd.org

Retina Research Foundation is dedicated to the eradication of retina disease through programs in research and education.

50 Years Training Vitreoretinal Fellows



Alice McPherson, MD

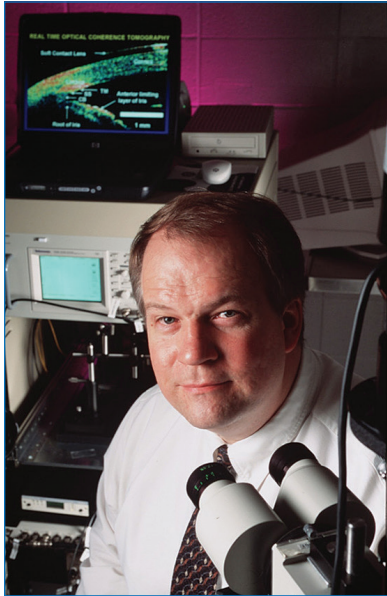
In 1966, Dr. Alice McPherson began training other ophthalmologists in the subspecialty of retina as part of her clinical practice. Vitreoretinal Disease and Surgery Fellows trained by Dr. McPherson now number over 80, and are currently in practice or have practiced in 22 states: Arizona, California, Colorado, Connecticut, Florida, Georgia, Illinois, Indiana, Louisiana, Maryland, Michigan, Minnesota, Missouri, North Carolina, New Jersey, New York, Ohio, Oklahoma, Oregon, Pennsylvania, Texas, and Virginia; and three other countries: Australia, Mexico, and Puerto Rico.

A reunion of many of the Vitreoretinal Fellows trained by Dr. McPherson was held during this year's American Academy of Ophthalmology Annual Meeting in Chicago. RRF congratulates Dr. McPherson on 50 years of training retina specialists!



Dr. McPherson and some of her Vitreoretinal Fellows

Duke Researchers Create Handheld Imaging Device



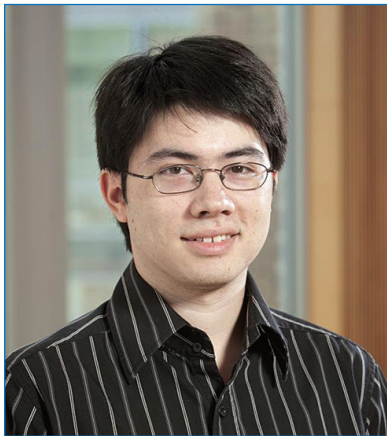
Dr. Joseph Izatt

Researchers at Duke University have recently designed a novel portable device capable of capturing high-definition images of the retinas of children. Researchers from the Pratt School of Engineering and the Duke Eye Center, led by Joseph Izatt, PhD, created a small handheld imaging device that does not require stillness and intense focus on the part of children.

Francesco LaRocca, PhD, principal author of the study, explained, “Children have difficulty fixating, so you can’t use traditional tabletop systems. [A device] has to be small and lightweight for the clinician to get good images from the subject.” Dr.

LaRocca added that providing crisp images down to the photoreceptor level will allow doctors to identify a disease in its early stages.

Prior studies, as well as recently developed technology, led to the development of modifications that allowed the probe to be



Dr. Francesco LaRocca

reduced to the size of a quarter. This design utilizes a single light source instead of two, a compact micro-electromechanical systems scanner, and a converging beam design. “[The current version] was used mostly for getting our feet wet and having the clinicians use it and give us feedback so that we can generate the next device,” Dr. LaRocca said.

At this time, this device is in the early testing stages. Researchers look forward to refining the probe and continuing to make improvements. This high-definition imaging will be able to better identify the onset of certain vitreoretinal diseases, advance the study of juvenile retinal development, and may also lead to development of preventive measures in treating retinal diseases.

www.dukechronicle.com

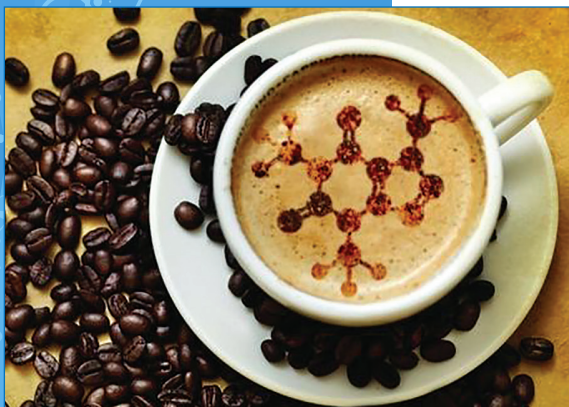
*“To raise new questions,
new possibilities,
to regard old problems
from a new angle,
requires creative
imagination and marks
real advance in science.”*

Albert Einstein

Mediterranean Diet and Caffeine May Cut AMD Risk



Fruit may be especially protective against AMD



Antioxidants in caffeine may help the eyes



Mediterranean diet

A new study presented at the 120th annual meeting of the American Academy of Ophthalmology (AAO 2016) has identified that diet and caffeine may play a significant role in protecting against age-related macular degeneration (AMD). A diet rich in fruits, vegetables, whole grains, legumes, nuts, healthy fats and fish has been demonstrated in prior studies to provide general health benefits, and this study shows that these benefits extend to preserving vision.

Researchers at the University of Coimbra in Portugal, led by Rufino Silva, MD, PhD, assessed the diets of 883 people in Portugal aged 55 or older. About half of the study group had early stage AMD (without vision loss) and half did not have AMD. Of those in the study group who closely followed the Mediterranean diet, only 39 percent had AMD – compared to those who did not follow the diet (50 percent had AMD). This represents a 35 percent lower risk in those who adhered to the Mediterranean diet. Fruits were especially beneficial. Overall, people who ate about five ounces of fruit or more each day were almost 15 percent less likely to have AMD.

Researchers also found that higher consumption of antioxidants such as caffeine, beta-carotene and vitamins C and E was protective against AMD. While caffeine is not considered part of the Mediterranean diet, per se, consumption of coffee and tea is common in Mediterranean countries. Caffeine is known to be protective against other conditions such as Alzheimer’s disease.

“This research adds to the evidence that a healthy, fruit-rich diet is important to health, including helping to protect against macular degeneration,” said Dr. Silva. “We also think this work is a stepping stone towards effective preventive medicine in AMD.”

www.aao.org

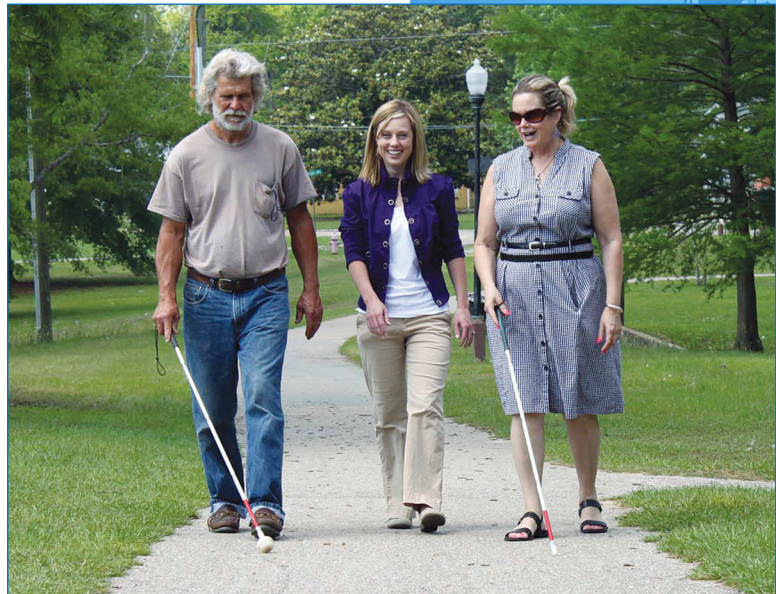
Orientation and Mobility Information

Orientation and Mobility (O&M) specialists provide services to people of all ages with low vision. These vision rehabilitation professionals are professionally certified and trained to teach people who are vision impaired the skills and tools to travel safely and live independently. Whether it's being able to move safely from room to room in the home or to safely walk to the local store, learning these practical techniques greatly improves the quality of life for those with low vision.

The Academy for Certification of Vision Rehabilitation and Education Professionals (ACVREP) teaches these specialists to help their clients learn new ways of:

- Developing all of their senses to help orient themselves in space and plan where they want to go;
- Moving safely through both indoor and outdoor environments;
- Using a cane and other devices to walk safely and efficiently;
- Seeking or declining assistance;
- Using strategies such as following directions to find destinations;
- Developing techniques for crossing streets such as analyzing and identifying intersections and traffic patterns;
- Developing problem-solving skills to determine what to do if they are disoriented, lost or need to change their route;
- Using public transportation and transit systems.

www.visionaware.org



Safely moving from place to place



Learning new ways to complete tasks in the home

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Managing Editor: Margaret Farese

Retina Research Foundation Is a Nonprofit Organization.

FREE MATTER
FOR THE
BLIND OR
HANDICAPPED

CHANGE SERVICE REQUESTED

Please indicate changes in boxes and make any corrections needed next to your name and address, then clip and return entire address label in an envelope.

- Change name or address as shown on address
- Remove name from mailing list.

Special Remembrances

IN MEMORY OF

Jesse Cosby
Jimmie Jordan

Dr. Herbert A. Lesser
Lorwen Merriman

Carroll Todd
Waneta Todd

Rosella Felt
Charla Zutavern

David Sherman
Marc Schwartz

Wilson M. Wheat
Dr. and Mrs. Robert Wheat

IN HONOR OF

My father, Larry L. Kalina
Charla Zutavern

Two New RRF Appointments at McPherson Eye Research Institute

Kathryn and Latimer Murfee Chair **T. Michael Nork, MD**

Professor, Ophthalmology and Visual Sciences
McPherson ERI, University of Wisconsin, Madison, WI

Dr. Nork's research focuses on the mechanisms by which various ocular diseases affect the outer retina (especially the rods and cones) and how injury to the outer retina might, in turn, affect disease pathogenesis.

MD Matthews Professor **Bikash Pattnaik, PhD**

Assistant Professor, Pediatrics, Ophthalmology & Visual Sciences
McPherson ERI, University of Wisconsin, Madison, WI

Dr. Pattnaik's research focuses on understanding mechanisms of retinal diseases due to ion channelopathy, and his future focus is on the basic understanding of the cellular basis of potassium and chloride channel function in the retina as tools to diagnose disease.



RRF accepts credit cards for donations securely online at www.retinaresearchfnd.org
Call the office for more information: 713-797-1925



Additional memorials received will appear in the next issue.