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Welcome to the *Electronic Iowa Eye News*.
 This end-of-year supplement will appear only on the web.

The Faculty and Staff of the Department of Ophthalmology and Visual Sciences wish you a Happy Holiday and a Healthy & Successful New Year.



Photo by Michael P. Harker, Ophthalmic Photography. From his forthcoming book "[Harker's Barns: Visions of an American Icon](#)", University of Iowa Press, 2003. ISBN 0877458340

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Iowa Eye Association Annual Meeting to Honor Dr. Sohan Singh Hayreh

Mark your calendar for the 2003 Iowa Eye Association Annual Meeting on June 13-14. Dr. Sohan Singh Hayreh will be honored at the meeting and will deliver the Braley Lecture. Dr. Sam Masket will be the Wolfe Foundation Lecturer.

Sohan Singh Hayreh, MD, PhD, FRCS, DSc, FRC Ophth



Dr. Sohan Singh Hayreh has made extensive contributions to basic, experimental, and clinical ophthalmology. He is recognized as an authority on ocular and optic nerve circulation, vascular disorders of the eye, and giant cell arteritis, among other topics. Dr. Hayreh began his medical education in 1946 at King Edward Medical College in Lahore, India, the capital of the Punjab. One year later, the tragic partition of India occurred and Lahore went to Pakistan. Because of the bloody riots and reprisals, the Sikh and other non-Muslim medical students in Lahore fled to the relative safety of the only Medical College in the Indian part of the Punjab after the partition — Panjab University, Amritsar. Dr. Hayreh received the Bachelor of Medicine & Surgery in

1951 and, in 1959, the Master of Surgery degree from Panjab University. He began his residency training in surgery at Panjab University in January 1952 and then, beginning in July 1952, served as Medical Officer in the Indian Army Medical Corps in rough field conditions near the Pakistan border for over three years. From September 1955 to September 1961, he was a Lecturer and then Assistant Professor in the Anatomy Department of the newly-established Medical College in Patiala, India.

In 1961, he was awarded the prestigious Beit Memorial Research Fellowship for Medical Research and moved to London to work with Sir Stuart Duke-Elder at the Institute of Ophthalmology, University of London until late in 1964. The research he conducted at this time formed the basis of his Ph.D. thesis from the University of London in 1965. He spent one year as a Senior House Officer at Birmingham & Midland Eye Hospital and then returned to the Institute of Ophthalmology and Moorfields Eye Hospital, London, as Lecturer in Clinical Ophthalmology where he became one of the pioneers in the field of fluorescein angiography. In 1969, he passed the examina-

tions for Fellowship of the Royal College of Surgeons of Edinburgh and of the Royal College of Surgeons of England. In 1969, he moved to the University of Edinburgh as Senior Lecturer and later Reader in Ophthalmology and Consultant Ophthalmologist to the Edinburgh Royal Infirmary. In 1972, Dr. F. C. Blodi invited him to join the University of Iowa's Department of Ophthalmology and in 1973, Dr. Hayreh joined the faculty as Professor and Director of the Ocular Vascular Clinic and Ocular Vascular Research.

In recognition of his research work in Ophthalmology, he was awarded the degree of Doctor of Science (Medicine) by the University of London in January 1987. This degree was awarded for his published research work which was judged by the University of London as "original" and "of high standard such as would give a candidate an authoritative standing in Ophthalmology and in his particular field of research (Ocular Circulation in Health and Disease; Optic Nerve Disorders)" and containing "seminal publications which have led to extensions or developments by others." In 1999, he assumed emeritus status at the University of Iowa and has been able to devote himself full-time to his research.

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Distinctions & Awards:

2003 Mildred Weisenfeld Award for Excellence in Ophthalmology: Awarded by the Association for Research in Vision and Ophthalmology in recognition of distinguished scholarly contributions to the clinical practice of ophthalmology and visual sciences.

2002 Guest of Honor of the American Academy of Ophthalmology.

Fellowship of the National Academy of Medical Sciences (India). This is the highest Medical Academia of India. This Fellowship is “considered as an honour bestowed as an acknowledgement of ones’ achievement in the Profession”.

2001 Arnall Patz Medal of the Macula Society for outstanding contributions in the retinal vascular and macular diseases.

Research to Prevent Blindness Senior Scientific Investigator Award: Awarded by Research to Prevent Blindness Inc., New York for the year 1999.

Duke-Elder Medal and Lecture of the Royal College of Ophthalmologists, London, England: Invited to deliver this highly prestigious lecture at the 1995 annual meeting of the College, and was presented the Duke-Elder medal.

Von Sallmann Prize for 1994: This is awarded for “an outstanding achievement in ophthalmology and vision research” and was presented at the Biennial Congress of the International Society of Eye Research meeting in 1994.

Research to Prevent Blindness Senior Scientific Investigator Award: Awarded by Research to Prevent Blindness Inc., New York for the year 1993.

William Mackenzie Medal and Lecture, University of Glasgow, Scotland: Elected for the award in October, 1988. This highly prestigious award in ophthalmology is in honor of Dr. William Mackenzie (1791-1868). It is conferred from time to time, at international level, in recognition of valuable contributions to ophthalmology.

Morrison Lecturer of the Royal College of Physicians of Edinburgh, Scotland: Elected for the award in October, 1988. This prestigious lecture is in neurological disorders and is in honor of Sir Alexander Morrison who was President of the Royal College of Physicians in 1828.

Alcon Recognition Award for Outstanding Research Relevant to the Field of Ophthalmology: This was awarded by the Alcon Research Institute for the year 1987.

Honor Award by the American Academy of Ophthalmology in 1983.

Edward Nettleship Prize: Elected for the award by the Ophthalmological Society of the United Kingdom in 1971. The prize was awarded for the most valuable contribution to ophthalmology from 1965 to 1971 in Great Britain.

Middlemore Prize: Awarded for original research by the British Medical Association in 1966.

Norman McAllister Gregg Prize and Medal: Awarded from Australia for the most valuable contribution to knowledge of ophthalmology internationally from 1958 to 1964.

Watumull Prize and Gold Medal: Awarded by the Watumull Foundation Honolulu (USA) for the year 1964, for outstanding contribution to Medical Research. This prize is presented to a person of any of the various sciences, humanities or social sciences, who has been associated with India at any time. It is considered by the Trustees to be

equivalent to the Pulitzer Prize.

Arris and Gale Lecturer of the Royal College of Surgeons of England: Elected by the Royal College of Surgeons of England for the year 1963.

International Instituto Barraquer Barcelona Prize: Elected unanimously for this prize in ophthalmology for the year 1963.

Beit Memorial Research Fellow: Elected in 1961 by the University of London. This is a highly-coveted research fellowship in medical sciences in the United Kingdom. He worked with Sir Stewart Duke-Elder for three years and the research work done during this period formed the basis of his thesis for his Ph.D. from the University of London.

Shakuntala Amir Chand Prize: Awarded by the Indian Council of Medical Research for the year 1961. This prize is awarded annually for the best research done in India.

College Council Gold Medal: Awarded for Medical Research by the Medical College, Patiala, Panjab University, India, in 1961.

Dr. Hayreh has published over 300 papers and 50 chapters and is recognized as an international authority in the following areas:

Ocular and optic nerve circulation in health and disease.

Vascular disorders of the retina, choroid, optic disc, optic nerve, and anterior segment of the eye.

Fluorescein angiography in ocular and optic disc circulation in health and disease.

Disorders of the optic disc, particularly papilledema, glaucomatous optic neuropathy, and anterior ischemic optic neuropathy.

Hypertensive fundus changes.

Rheumatologic diseases of the eye, particularly giant cell arteritis, scleritis and episcleritis.

Bioinformatics Group Collaborate with the Center for Macular Degeneration



The Center for Macular Degeneration was founded on an interdisciplinary philosophy with a goal of using expert knowledge to try to solve the mystery of age-related vision loss. Among the collaborators in this team approach are three faculty colleagues in bioinformatics and computational biology: Todd Scheetz, PhD, Terry A. Braun, PhD, and Thomas A. Casavant, PhD.

Thomas L. Casavant, PhD.

Professor Casavant directs the UI [Center for Bioinformatics and Computational Biology](#) and Electrical and Computer Engineering's Parallel Processing Laboratory. He is also a member of the Coordinated Laboratory for Computational Genomics, the Department of Biomedical Engineering, The Department of Electrical and Computer Engineering, and the PhD Program in Genetics. Since 1996, Dr. Casavant has led computational molecular biology efforts in gene discovery, mapping, and disease gene identification and isolation. He has been active in the Human Genome Project and has developed system tools for computational molecular biology, gene discovery, mapping, and disease identification. These tools include two tools for the management and analysis of genetic linkage data, and numerous

programs for gene discovery and novelty analysis. He has published extensively with over 70 papers on parallel processing and distributed computing, as well as genomics. (source: Tom Casavant's Home page at <http://www.eng.uiowa.edu/~tomc>, accessed December 6, 2002.)

Terry A. Braun, PhD.

Dr. Braun is an Assistant Professor of Ophthalmology & Visual Sciences and Biomedical Engineering, and is the Director of the [Coordinated Laboratory for Computational Genomics](#). He holds a Masters Degree from the University of Iowa in Electrical and Computer Engineering and a PhD from the University of Iowa in Genetics. His PhD thesis was "A software tool architecture to assist disease gene identification." His thesis advisors were Thomas L. Casavant and Val C. Sheffield. His research interests include genomic analysis for mutation identification, applying computational methods to search genomic sequence to identify candidate disease genes and novel sequence characteristics, and disease gene identification.

Todd Scheetz, PhD.

Dr. Scheetz is a Senior Computational Scientist for the Coordinated Laboratory for Computational Genomics and an Associate with the Department of Ophthalmology and Visual Sciences. He also holds a joint appointment with Biomedical Engineering. He earned a Masters Degree from the University of Iowa in Electrical and Computer Engineering and a PhD from the University of Iowa in Genetics. For his PhD Thesis, he was mentored by Drs. Thomas Casavant, M. Bento Soares, and Val Sheffield working

on an NIH-funded project aimed at developing new resources for the laboratory rat. During this time, he created chromosome-spanning genetic framework maps. He has also created comparative maps between rat and mouse, and between rat and human, identifying 50 syntenic segments between rat and mouse, and 132 between rat and human. Since receiving his PhD in May 2001, he has worked on a variety of gene discovery, annotation, and expression analysis research projects.

For more information:

[Center for Bioinformatics and Computational Biology](#), directed by Thomas Casavant, PhD.

The Center for Bioinformatics and Computational Biology aims to catalyze the development of new areas of study and expanded research opportunities in informatics areas related to the basic biological science, and applied medical research. It is affiliated with the Center for Macular Degeneration directed by Edwin Stone, MD, PhD, the Coordinated Laboratory for Computational Genomics, directed by Terry Braun, PhD, the Roy J. Carver Center for Comparative Genomics, directed by William Ballard, MD and the Diabetes-Endocrinology Research Center.

[Coordinated Laboratory for Computational Genomics](#), headed by Terry Braun, PhD.

Online Giving Page Now Available

As you are thinking about your charitable gifts this season, we hope you will consider supporting the University of Iowa Department of Ophthalmology and Visual Sciences.

The University of Iowa Foundation has made it easier for friends of the Department of Ophthalmology & Visual Sciences to make gifts to the department or individual services, clinics, or laboratories. Simply [visit the web site](#) and make a pledge or donate directly using a credit card. Select either the Ophthalmic Gift Fund or Research & Development Fund, or click on the link to "[view other ophthalmology giving opportunities](#)" to restrict your gift to one or more specific areas of interest. Make your charitable gifts by December 31 and you will not only receive the satisfaction of supporting the University of Iowa Department of Ophthalmology & Visual Sciences, but you may realize significant 2002 tax savings as well. Your gift is important to the future of the department as we work to provide excellent eye care, conduct innovative and sight-saving research, and train future ophthalmologists and researchers.

Make a
Gift Online

Faculty Highlights

Dr. Randy **Kardon** and Dr. Steve **Goldin** (fellow in neuro-ophthalmology) are the recipients of an \$18,000 grant from the Madison Community Foundation (MCF) which funds clinical research in vascular disease. The grant allows them to study the dynamics of fluorescein angiography with the Heidelberg Retinal Angiographic camera in patients with anterior ischemic optic neuropathy (AION). Quantifying the dynamics of choroidal filling with dye will be used to differentiate the arteritic from the non-arteritic cause of AION. They are working with Heidelberg to develop the system and software analysis of the results. [MCF](#) is a community trust that was established in 1942 to enhance the lives of the citizens of Dane County, Wisconsin. Recipients of the funds are not restricted to residents of Dane County; MCF is permitted to distribute funds anywhere in the United States upon the donor's recommendations.

Dr. Keith **Carter** is among those leaders highlighted in the new book, *Breaking the Color Line in Medicine: African Americans in Ophthalmology* on the role of African Americans in Ophthalmology. The book (co-authored by Bob Daniels and Lenworth N. Johnson — chair of the National Medical Association Ophthalmology Section and neuro-ophthalmologist at the University of Missouri in Columbia, MO) includes a historical

perspective on the factors influencing the entrance of African Americans into the field of ophthalmology. The second section of the book presents over 50 biographical sketches of African Americans — born in the United States, Africa, the Caribbean, and Asia — who have become ophthalmologists. Dr. Stan Thompson contributed a foreword to the book. *Breaking the Color Line in Medicine: African Americans in Ophthalmology*. Slack, Inc, 2002.

Dr. Jeff **Nerad** will be visiting King Khaled Eye Specialist Hospital (KKESH) in Riyadh, Saudi Arabia in March 2003. Dr. Michael D. Wagoner is currently the Medical Director at KKESH, he was a member of the Cornea faculty at the University of Iowa Department of Ophthalmology from 1999 to the fall of 2002.

Pohnpei Low Vision Project
Dr. Mark **Wilkinson** will be the lead optometrist/low vision specialist for the Pohnpei Low Vision Project. Dr. Mark Wilkinson and Donna McNear, educator and original organizer of the project, will conduct an initial visit to Pohnpei and Guam, February 2003. The purpose is to conduct initial low vision exams, begin training with special education staff, and meet with partner organizations to plan for future low vision

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Faculty Highlights (continued)

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services in the Federated States of Micronesia (FSM). Future visits will be funded in collaboration with the Rotary Clubs of Guam and Pohnpei. The Pohnpei Low Vision Project is an international collaborative project of Micronesia Missions providing low vision services to

the children on Pohnpei with plans to expand the project to other areas in the FSM. This project will make a long-term difference to the children because of the collaboration with local organizations and the affiliation with the Pohnpei Department of Education. This relationship will provide follow-up services that are critical in

helping children improve their ability to see and develop literacy skills. This is a critical need because of the unusually high incidence of children with visual impairments, partially due to the condition of achromatopsia documented in the book, *Island of the Color Blind*, by Dr. Oliver Sacks.

Iowa Highlights from the American Academy of Ophthalmology Annual Meeting, Orlando, Florida

In the opening session, Dr. Tom Weingeist was honored for his year of service as President of the Academy in 2002.

Dr. Sohan Hayreh was a Guest of Honor at the meeting. The Academy expressed its admiration and gratitude for Dr. Hayreh's years of dedication and leadership in the field of ophthalmology. The special award recognized Dr. Hayreh's dedication to research and education that has made him an outstanding role model in the field of ophthalmology.

Dr. Culver Boldt received an Achievement Award. Achievement Awards recognize individuals for their time and contri-

bution to the scientific programs of the Annual Meeting.

Dr. Andrew Lee received a Secretariat Award in Instruction and Continuing Education and Dr. Tom Oetting received a Secretariat Award for Communications. The Secretariat Award is new in 2002 and recognizes ophthalmologists for special contributions to the Academy and to ophthalmology. Dr Stan Thompson was honored by the North American Neuro-Ophthalmology Society when he was asked to give the 2002 William F. Hoyt Lecture. Dr Thompson talked about the History of Using Pupillary Reactivity as an Indicator of

Visual Potential. Dr. John Sutphin gave a Key Note Lecture to the Refractive Surgery Interest Group prior to the AAO on Friday, entitled "What are We Doing to the Cornea." He was also principal instructor for the course: Highlights of the Basic and Clinical Science Course (BCSC) Number 8, Cornea and External Disease and was Chairman of BCSC 8 and which published a new edition this year.

The Annual Iowa Eye Association reception held Monday night at the Peabody, was a big success with about 100 people attending.

Iowa City VA Project Given REAP Grant

The Iowa City VAMC has been awarded a five year Research Enhancement Award Program (REAP) that focuses on the study of vascular disease in diabetes. The award provides \$250,000 per year to support both pilot projects and the training of new investigators. Dr. William Sivitz is the principal investigator, and co-investigators are **Dr. Randy Kardon** (Ophthalmology) and Drs. Kevin Dellsperger, and Donald Heistad (Internal Medicine). The projects, to be supported by the REAP, include both basic and patient-focused research projects.

The AAO Iowa Highlight PhotoAlbum is online at <http://webeye.ophth.uiowa.edu/dept/PhotoAlbum/2002AAO/>

12 UI Ophthalmology Physicians Listed Among Best Doctors in America

Twelve University of Iowa Health Care ophthalmologists have been selected for inclusion in 2002 Best Doctors in America® database.

Wallace L. M. **Alward**, H. Culver **Boldt**; Keith D. **Carter**; Randy H. **Kardon**; Ronald V. **Keech**; Andrew G. **Lee**; Jeffrey A. **Nerad**; Stephen R. **Russell**; William E. **Scott**; Edwin M. **Stone**; John E. **Sutphin, Jr.**; and Thomas A. **Weingeist** were listed this year. In all, one

hundred forty-four University of Iowa Health Care physicians have been selected for inclusion in 2002 Best Doctors in America database.

The Best Doctors database results from surveys undertaken by Best Doctors Inc., a provider of information about the best medical care available. To compile the current database, more than 30,000 doctors throughout the U.S. were asked to rate the clinical abilities of

other doctors in their areas of specialization. Only physicians who earned the consensus support of their peers were included. Best Doctors uses its database to support web-based services that link individuals with serious illness to these expert medical specialists for second opinions or treatment. The company can be contacted through its website at <http://www.bestdoctors.com>.

Iowa Lions Support Eye Bank and Cornea Center

In October, the Lions of Iowa Council of Governors voted unanimously to give the Iowa Lions Eye Bank space for a satellite office in the Iowa Lions State Office building at the junction of Highways 30 and 69 in Ames, Iowa. The Council of Governors has also approved some minimal remodeling for the space, with the eye bank assuming the remodeling costs. Remodeling will begin in January, with an anticipated move in date of February 1, 2003. A regional manager is currently being sought to oversee the satellite operation.

The Iowa Lions Eye Bank has experienced considerable growth and change in the past five years and the opportunity for a satellite will enhance their capabilities to serve central and western Iowa, not only the donation/health care field, but

the Lions of Iowa as well. In addition, the Council officially approved the Lions Clubs International grant application in the amount of \$25,372 for the

confocal microscope for the Cornea Center and also agreed to raise an additional \$7,500 for matching funds toward the total purchase price of \$50,745.



Iowa Highly Ranked in *Ophthalmology Times* Survey

The Seventh Annual Ophthalmology Times survey that ranks the top ophthalmology programs in the United States, has again ranked Iowa in the top ten in all four categories. Iowa was ranked the third in Best Overall Ophthalmology Programs and Best Residency Programs, 4th in Clinical (Patient Care) Ranking, and tied for 6th in Research Programs. *Ophthalmology Times*, October 15, 2002.

Best Overall Programs

Rank	School or Institution
1	Wilmer Eye Institute/ Johns Hopkins University
2	Bascom Palmer Eye Institute/ University of Miami
3	University of Iowa
4	University of Wisconsin- Madison (tie) Jules Stein Hospital/UCLA
6	Wills Eye Hospital
7	Doheny Eye Institute/USC (tie) Duke University Eye Center Emory University New York Eye & Ear Infirmary

Best Residency Programs

Rank	School or Institution
1	Bascom Palmer Eye Institute/University of Miami
2	Wilmer Eye Institute/Johns Hopkins University
3	University of Iowa
4	Jules Stein Hospital/UCLA
5	Wills Eye Hospital
6	University of California-San Francisco
7	University of Wisconsin-Madison
8	Cullen Eye Institute/Baylor University Doheny Eye Institute/USC New York Eye & Ear Infirmary

Best Clinical (Patient Care) Programs

Rank	School or Institution
1	Bascom Palmer Eye Institute/University of Miami
2	Wilmer Eye Institute/Johns Hopkins University
3	Wills Eye Hospital
4	University of Iowa
5	Jules Stein Hospital/UCLA
6	Duke University Eye Center
7	Emory University (tie) University of Wisconsin-Madison
9	Doheny Eye Institute/USC (tie) W.K. Kellogg Eye Center/University of Michigan

Best Research Programs

Rank	School or Institution
1	Wilmer Eye Institute/Johns Hopkins University
2	Jules Stein Hospital/UCLA
3	Maeachueotte Eye & Ear Infirmary/Harvard University
4	Scheie Eye Institute/University of Pennsylvania
5	University of Wisconsin-Madison
6	Bascom Palmer Eye Institute/University of Miami (tie) University of Iowa
8	W.K. Kellogg Eye Center/University of Michigan
9	Duke University Eye Center
10	Doheny Eye Institute/USC

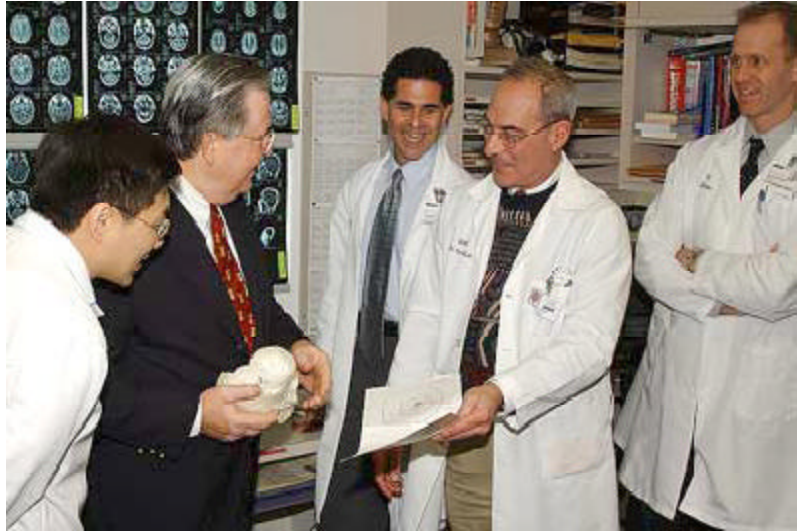
Alumni News

Dr. Michael J. Howcroft has recently returned to Iowa. He had been in practice in Toronto, Canada. He is now with Eye Surgeons Associates, PC. Phone (309)732-5740. Dr. Howcroft was an Ophthalmic Echography fellow in 1982.

Diane, Kendall, and Nils Boone announce the birth of Annika Linnae Boone, born September 29, 2002. **Dr. Diane Boone** finished her ophthalmology residency in 1996, was a 1996-1997 Comprehensive Ophthalmology fellow, and a faculty member (1998-2000). She is currently in practice in Rockford, Illinois.

Robert C. Watzke, MD, retired faculty member (1958-1984), celebrated his 80th Birthday on December 17, 2002. He is retired, but continues to continue to teach residents and fellows at the Casey Eye Institute in Portland, Oregon. Dr. Watzke's email address is watzke@spiritone.com. Cards and written communications can be sent to: Dr. Robert Watzke, c/o Shirley Ira Casey Eye Institute, Oregon Health Sciences University, 3375 SW Terwilliger Blvd., Portland, OR 97201-4197.

Dr. James J. Corbett was the guest speaker at the Neuro-Ophthalmology Clinical Conference held December 6, 2002. Dr. Corbett was a Neuro-ophthalmology Faculty member from 1977 to 1990. He is now chair of the University of Mississippi Department of Neurology.



The Neuro-Ophthalmology Service

Drs. Randy Kardon and Steve Goldin (center and right) look on as Drs. Andy Lee (left) and Michael Wall (second from left) discuss a case with visiting speaker, Dr. James Corbett at December's Clinical Conference.

Spivey Selected as Distinguished Alumnus

Dr. Bruce Spivey will be honored as a recipient of the University of Iowa Carver College of Medicine Distinguished Alumnus Award for Service on June 6, 2003. Dr. Bruce Spivey received his M.D. from the University of Iowa in 1959. He did his ophthalmology residency here from 1960 to 1964, and was on the faculty at the University of Iowa from 1966 to 1971. Dr. Spivey currently lives in San Francisco.



Dr. Bruce Spivey

We wish you
a Happy
Holiday and
a Healthy &
Successful
New Year



from the faculty and staff of the University of Iowa
Department of Ophthalmology and Visual Sciences



CALENDAR 2001-2002

Clinical Conferences

DATE	TOPIC	GUEST SPEAKER
February 7, 2003	Cataract	Kerry D. Solomon, MD
March 7, 2003	Pediatric Ophthalmology	Craig A. McKeown, MD
April 11-12, 2003	Iowa Medical Society Meeting, Des Moines Iowa Special University of Iowa/Iowa Academy of Ophthalmology Combined Meeting features Cornea/Refractive Surgery	William W. Culbertson, MD
June 13-15, 2002	Iowa Eye Association Annual Meeting 2003 Symposium Honoring Dr. Sohan Singh Hayreh Emeritus Professor of Ophthalmology and Visual Sciences	

Iowa Eye Association, inc.

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