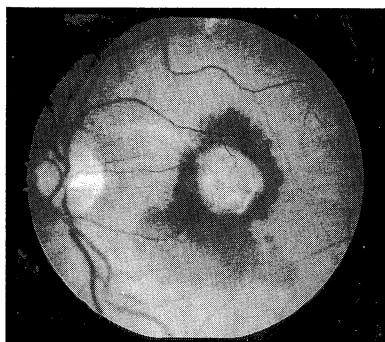
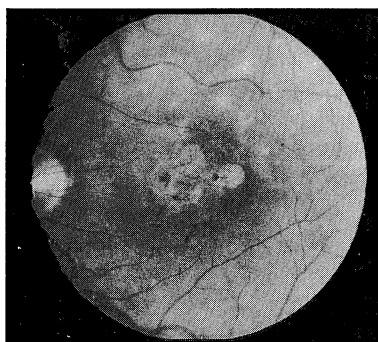


October 1994, Series 2 No. 25

TREATMENT ADVANCES



Neovascular membrane beneath fovea *before* surgery, visual acuity was 20/500



Same eye *after* surgery, visual acuity is now 20/40

TREATMENT ADVANCES FOR CHOROIDAL NEOVASCULARIZATION

Choroidal neovascular membranes (CNVM), probably the leading cause of blindness in patients seen at the UIHC, complicate a number of eye diseases. Our Vitreoretinal Service continues to be at the forefront of the diagnosis and treatment of these disabling diseases.

Macular Photocoagulation Studies

The University of Iowa Department of Ophthalmology was one of 12 centers involved in the landmark Macular Photocoagulation Studies

(MPS). Drs. Robert Watzke, James Folk, and Alan Kimura recruited and treated patients with choroidal neovascularization resulting from macular degeneration of aging (AMD), ocular histoplasmosis, and idiopathic disease. The results of eight MPS trials proved that laser treatment preserved vision in patients with extrafoveal and juxtafoveal choroidal neovascularization in all three of these diseases and subfoveal neovascularization in AMD. These results are the scien-

tific basis for the current laser treatment of these diseases.

Subretinal Surgery

Severe visual loss from subfoveal neovascularization remains a major problem, even with laser treatment. The treatment usually results in a central scotoma and vision of 20/100 or worse.

Vitreoretinal surgery to remove subfoveal membranes is now used selectively here at the UIHC. The surgery begins with a vitrectomy. A small retinotomy outside the fovea is created with a sharp blade and (continued on page 2)

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Treatment Advances

(continued from page 1)

balanced salt solution is infused to gently lift the retina away from the underlying neovascular membrane. The membrane is then loosened with a pic and removed with fine-angled forceps. A gas bubble is infused and the patient is positioned face down for a week until the small retinotomy heals. The results have been especially good in younger patients with presumed ocular histoplasmosis syndrome (POHS), ocular inflammatory disease, and even Best's disease. Most of the patients have had significant improvements in vision post-operatively that would have been impossible just three years ago. Removal of discrete subfoveal CNVM in AMD patients does not as yet improve vision as much as in younger patients. However, some AMD patients have had return of vision to a 20/40 to 20/80 level.

TPA

A subgroup of patients with choroidal neovascularization will suffer large subfoveal hemorrhages with severe visual loss and a poor prognosis. The subretinal blood is clotted and firm making removal very difficult. Dr. Alan Kimura, with help from Drs. Chittaranjan Reddy, James Folk, and Culver Boldt, has developed and published a technique of injecting tissue plasminogen activator (TPA) into the vitreous one day prior to

surgery. This technique is based on studies performed by Dr. Sohan Hayreh which show diffusion of fluids within the eye posteriorly as well as anteriorly. The TPA diffuses through the posterior retina and liquifies the clotted blood. The liquid blood can then be removed safely by suction through a small retinotomy. The surgery has improved vision in many of these previously hopeless cases.

Interferon

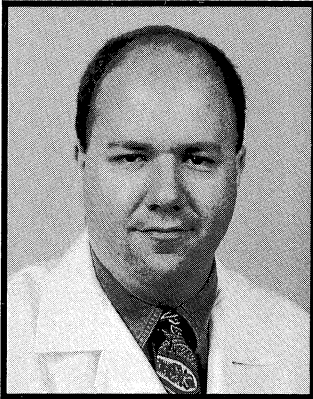
Unfortunately, many choroidal neovascular membranes are not clearly defined and therefore cannot be lasered. In addition, some subfoveal membranes are large, and the scotoma caused by their laser treatment will be too large for useful vision. Human leukocyte interferon (alpha interferon) has been shown clinically and experimentally to have anti-angiogenic properties: the interferon inhibits the formation of new blood vessels. The preliminary data on the use of interferon in patients with AMD and choroidal neovascularization has had mixed results. Our department is participating in a world-wide trial testing the treatment of neovascular AMD with Roferon-A (R) produced by Hofmann-La Roche, Inc. Patients are recruited if they are not eligible for laser treatment or surgery. These patients almost always suffer severe visual loss if left

untreated. This study will yield much information on the pathogenesis and treatment of occult or indiscrete choroidal neovascularization which is so common. The treatment is difficult and time-consuming, but some results should be known within two years. Dr. Folk is the principal investigator for this trial. Other investigators are Drs. Kimura, Boldt, Reddy, and Stone.

Prevention and cures still in future

All of the above laser, surgical, or medical treatments are "stop-gap" measures that are used to preserve some vision in patients with late disease. We must gain a better understanding of these diseases to develop strategies which ultimately may prevent them or allow treatment in the early stages. Dr. Stone, in collaboration with other members of the Vitreoretinal Service and co-workers beyond The University of Iowa, has located the disease-causing genes for Best's disease, pattern dystrophy of the retinal pigment epithelium (RPE), and Stargardt's disease, all of which have many similarities to AMD. Dr. Stone's team is also closing in on the genetic causes of AMD which may, hopefully, lead to a cure.

NEW RESIDENTS



Harold L. Cohen

Education: BA in Biology, Western Maryland College; MD, Johns Hopkins, Baltimore

Internship (medicine): Franklin Square Hospital Center, Baltimore



Ann Greifenstein Neff

Education: BS in Integrated Life Sciences, Kent State University, Kent, Ohio; MD, Northwestern Ohio Universities College of Medicine, Canton, Ohio

Internship (transitional): Aultman Hospital, Canton, Ohio



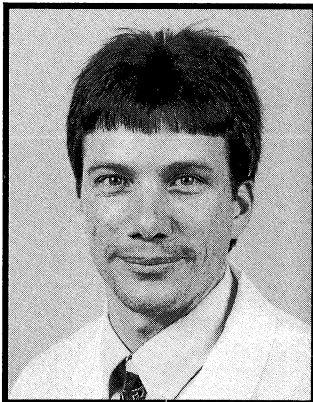
Jennifer Simpson

Education: BA in Biology, Kenyon College, Gambier, Ohio; one year at University of Lancaster, Lancaster, England; MD, University of Michigan, Ann Arbor

Internship (transitional): St. Joseph Mercy Hospital, Ann Arbor, Michigan

NEW FELLOWS

CORNEA/EXTERNAL DISEASE



Robert (Bob) Elgin

Education: BA in Chemistry and MD, University of North Carolina, Chapel Hill, North Carolina

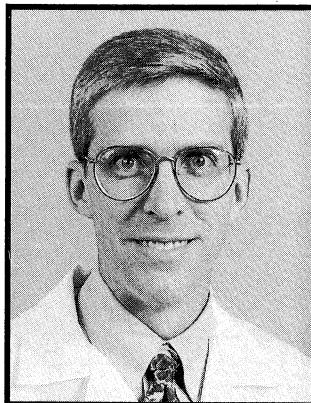
Internship (medicine): University of North Carolina

Ophthalmology Residency: University of North Carolina

Experience; UNC Hospital, Department of Endocrinology; Holderness Fellowship for Research, 1987-89.

Locum Tenens, Burlington, North Carolina

GLAUCOMA



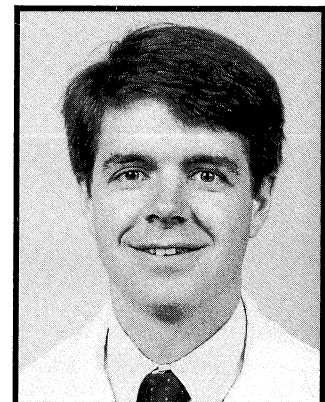
Kevin McKinney

Education: BS in Biology and MD, Baylor, Houston Texas; MPH, Johns Hopkins, Baltimore

Internship (transitional): St. Joseph Hospital, Houston

Ophthalmology Residency: UIHC

NEURO-OPHTHALMOLOGY



Richard (Rick) Neahring

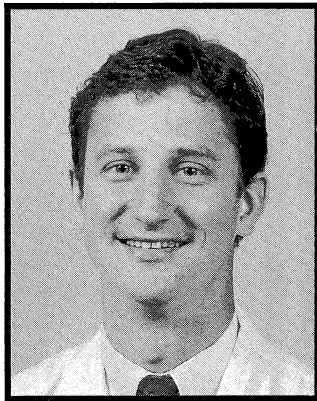
Education: BA in Premedicine, Augustana College, Rock Island, Illinois; MD, Northwestern University, Chicago

Internship (medicine): UIHC

Neurology Residency: UIHC

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OCULOPLASTICS



Michael L. Murphy

Education: BS in Zoology, University of Wisconsin, Madison; MD, Medical College of Wisconsin, Milwaukee

Internship (medicine): Maine Medical Center, Portland, Maine

Ophthalmology Residency: The Eye Institute, Medical College of Wisconsin, Milwaukee

RETINA

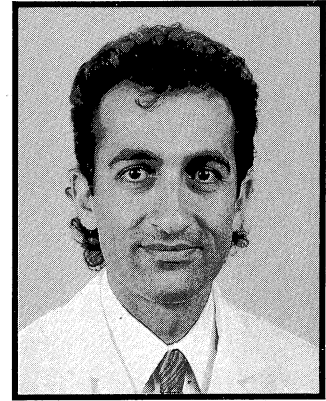


Deborah G. Keenum

Education: BA, Mt. Holyoke College, South Hadley, Massachusetts, one year at University of Geneva, Geneva, Switzerland; MA, Johns Hopkins School of Advanced International Studies and the School of Hygiene and Public Health, Washington, DC, and Baltimore, Maryland; MD, Johns Hopkins, Baltimore

Internship (medicine): Franklin Square Hospital Center, Baltimore

Ophthalmology Residency: Wilmer Institute, Johns Hopkins



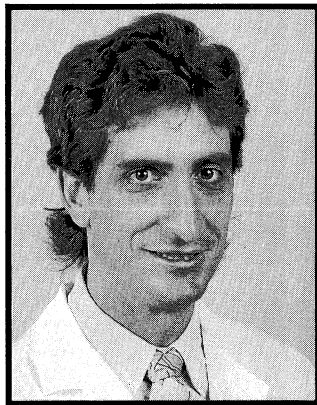
Ali R. Tabassian

Education: BS in Zoology, and PhD in Physiology, George Washington University, Washington, D.C.; MD, Medical College of Virginia, Richmond

Internship (transitional): Riverside Regional Medical Center, Newport News, Virginia

Ophthalmology Residency: Medical College of Virginia, Richmond

**PEDIATRIC
OPHTHALMOLOGY**



Sean Donahue

Education: BS in Mathematics and Biology, University of Dayton, Ohio; MD, Emory University School of Medicine, Atlanta, Georgia; PhD in Anatomy and Cell Biology, Emory University

Internship: Mercy Hospital of Pittsburgh

Residency: Eye and Ear Institute, University of Pittsburgh

Fellowship: Neuro-ophthalmology, University of Iowa

ALUMNI NOTES

Angela R. Bratton, MD, (resident graduate June 1993) has joined Eye Associates of New Mexico and Southwest Colorado. She will be serving patients in Los Alamos, Santa Fe, and Espanola, New Mexico.

Gunter K. von Noorden, MD, Professor of Ophthalmology and Pediatrics at the Baylor College of Medicine, Houston, Texas, has been elected to honorary membership in the International Strabismological Association. Dr. von Noorden is a 1960 graduate of the University of Iowa Resident Training Program and was an Assistant Professor of Ophthalmology at The University of Iowa from 1961 to 1963.

Charles E. Boylan, MD, President-elect of the Washington Academy of Eye Physicians and Surgeons died from a stroke on September 26, 1994, in Seattle. Dr. Boylan was a good friend and loyal supporter of the UI Department of Ophthalmology since completing his residency in 1965. He practiced in Seattle, Washington until this year when he took early retirement.

New Officers Elected

Officers were elected for 1994-95 at the annual June meeting of the Iowa Eye Association:

President:

Steven J. Jacobs, MD
(Cedar Rapids)

President-elect:

John C. Lee, MD
(Decatur, Illinois)

Secretary/Program Coordinator:

Jeffrey A. Nerad, MD (UIHC)

Treasurer:

Michael Bresnahan (UIHC)

Donation Helps O'Brien Library

Martin Koke, MD, a 1941 residency graduate when the department was under the leadership of Dr. C.S. O'Brien, has generously donated \$20,000 to the O'Brien Library over the past 2 years. The library, an invaluable resource for faculty, residents, fellows, and staff, will move to modern, up-to-date facilities on the lower level of the new Eye Institute in the Pomerantz Family Pavilion which is scheduled to open in late 1995.

Dr. Koke, who is retired from ophthalmology practice and living in San Diego, has visited here several times. His generosity is greatly appreciated and enables us, under the able direction of librarian Trish Duffel, to both maintain and improve our library collection. The growing collection includes new and rare books and several computers which allow access to other UI libraries and to the most up-to-date medical information in minutes.

Officers re-elected for 1994-95 at the October meeting of the Iowa Academy of Ophthalmology are as follows:

President:

Steven J. Jacobs, MD
(Cedar Rapids)

President-elect:

E. Michael Sarno, MD
(Des Moines)

Vice President:

C. Rommel Fuerste, MD
(Dubuque)

Secretary/Treasurer:

Jeffrey Nerad, MD (UIHC)

Department Offers Videos

The University of Iowa Department of Ophthalmology will be offering educational videotapes produced "in house" to Iowa Eye members starting November 1, 1994. Available tapes include the following:

"Fundamentals of Slit Lamp Biomicroscopy," Thomas A. Farrell, MD; W.L.M. Alward, MD; Randall E. Verdick. 22-minute program for the beginning slit lamp user.

"Combined Phacoemulsification, PC IOL Implantation and Trabeculectomy with Intra-operative Mitomycin C," Paul M. Munden, MD; W.L.M. Alward, MD; Randall E. Verdick. 13-minute program.

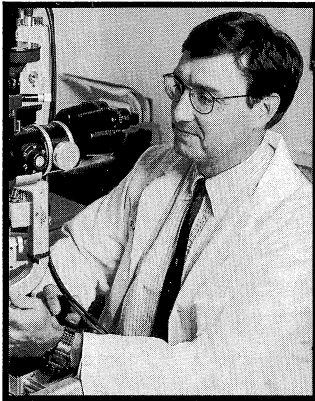
"Current Methods for Culturing Serious Ocular Infections," John E. Sutphin, MD; H. Culver Boldt, MD; Randall E. Verdick. 14-minute program.

"Temporal Artery Biopsy for Giant Cell Arteritis," Sean Donahue, MD; Jane Mizener, MD; Randall Verdick; Randy Kardon, MD. 11-minute program.

For more information, a listing of other available tapes, or to place an order, please contact Randall Verdick, Educational Media Coordinator, 319-356-2918.

DEPARTMENT NEWS

Munden Wins Phelps Award



Dr. Paul Munden was presented with the 1994 Charles D. Phelps Memorial Award at the September 9th combined annual Iowa Academy of Ophthalmology meeting and Clinical Conference. Dr. Munden is currently Assistant Professor in the Glaucoma Service.

He is an outstanding clinician and teacher who received his residency training here and then spent a year in fellowship training in glaucoma at Bascom Palmer Eye Institute, Miami, before joining our faculty in 1991. He has developed an experimental model to inhibit corticosteroid receptors in the trabecular meshwork in an effort to prevent ocular hypertension from steroid drops.

The award, which is given yearly to a deserving recipient chosen by a faculty committee, includes a plaque and \$2500 to support research.

Hayreh Honored

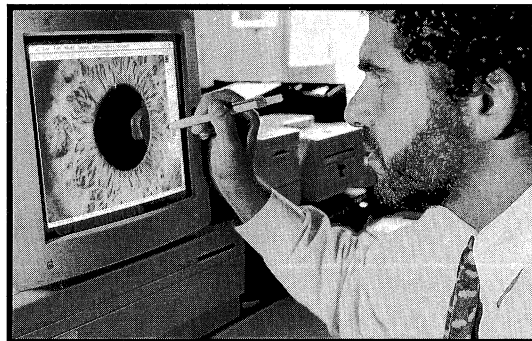
In recognition of his outstanding achievements in ophthalmology research, **Dr. Sohan S. Hayreh** will receive the Ludwig Von Sallmann Prize of the International Society of Eye Research at the XIth International Congress of Eye Research in New Delhi, India, November 13-18, 1994. Over the past 40 years, Dr. Hayreh has conducted extensive seminal basic and clinical research on the ocular and optic nerve circulation and is regarded as the international authority on the subject. Dr. Hayreh will also deliver the Von Sallmann Lecture, "Circulation of the Optic Nerve Head in Health and Disease," and he is an invited speaker at a symposium, "Calcium Channel Blockers and Blood Flow," at this congress.

Alward and Ross Appointed to Editorial Boards

Dr. Lee Alward, Associate Professor and Director of the Glaucoma Service, has been appointed to the Editorial Board of the *Journal of Glaucoma*. His 3-year term will begin in January 1995.

Dr. Robin Ross, third-year resident, has become the first resident physician to be appointed to the Editorial Board of the *Archives of Ophthalmology*. She expects to bring a new perspective to the Board representing the views of house staff. Dr. Ross presented a lecture on the history of women in ophthalmology in March at the National Library of Medicine in Washington, D.C., to the American Ophthalmic History (David Cogan) Society. She also serves on the Federal Manpower Committee of the AAO and is interested in international ophthalmology.

Kardon Selected for RPB Adams Scholars Award



Dr. Randy H. Kardon has been selected to receive a Research to Prevent Blindness James S. Adams Scholars Award in the amount of \$30,000. Dr. Kardon will use the funding to pursue new and promising scientific leads and develop new opportunities in ophthalmology research. His research interests include the relationship of visual dysfunction to pupillomotor responsiveness to

light, the pharmacology of the central and peripheral pupillomotor pathways, autonomic disorders of pupillary function, and risk factors in the pathogenesis of optic nerve diseases.

DEPARTMENT NEWS

Selected Faculty and Staff Publications 1993-94

(Bold print indicates faculty)

1993

Alward WLM, Farrell T, Hayreh S, Kolder H, Carney B, Phelps C [et al]. 3-Year follow-up of the fluorouracil filtering surgery study. *Am J Ophthalmol* 1993;115(1):82-92.

Joos KM, Alward WLM, Folberg R. Experimental endoscopic goniotomy: a potential treatment for primary infantile glaucoma. *Ophthalmology* 1993; 100(7):1066-70.

Danis RP, Yang Y, Massicotte SJ, Boldt HC. Preretinal and optic nerve head neovascularization induced by photodynamic venous thrombosis in domestic pigs. *Arch Ophthalmol* 1993;111(4):539-43.

Funk GF, Hoffman HT, Carter KD. Special considerations in the management of malignant skin lesion about the eye. *Otolaryngol Clin N America* 1993;26(2):215-30.

Folberg R. Tumor progression in ocular melanomas. *J Invest Dermatol* 1993;100(3):S326-31.

Folberg R, Dickinson LK, Christiansen RA, Huntley JS, Lind DG. Interactive videodisc and compact disc-interactive for ophthalmic basic science and continuing medical education. *Ophthalmology* 1993;100(6):842-50.

Folberg R, Rummelt V, Parys-van Ginderdeuren R, Hwang T, Woolson RF, Pe'er J, Gruman LM. The prognostic value of tumor blood vessel morphology in primary uveal melanoma. *Ophthalmology* 1993;100(9):1389-98.

Rummelt V, Folberg R, Ionasescu V, Yi H, Moore HC. Ocular pathology of the MELAS syndrome with mitochondrial DNA nucleotide-3243 point mutation. *Ophthalmology* 1993;100(12):1757-66.

Fine SL, Wood WJ, Isernhagen RD, Singerman LJ, Bresler NM, Folk JC, Kimura AE, Fish GE, Maguire MG, Alexander J. Laser treatment for subfoveal neovascular membranes in ocular histoplasmosis syndrome — Results of a pilot randomized clinical trial. *Arch Ophthalmol* 1993;111(1):19-20.

Malinowski SM, Pulido JS, Folk JC. Long-term visual outcome and complications associated with pars planitis. *Ophthalmology* 1993;100(6):818-24.

Malinowski SM, Pulido JS, Goeken NE, Brown CK, Folk JC. The association of HLA-BB, -B51, -DR2, and multiple sclerosis in pars planitis. *Ophthalmology* 1993;100(8):1199-205.

Hayreh SS, Rubenstein L, Podhajsky P. Argon laser scatter photocoagulation in treatment of branch retinal vein occlusion: a prospective clinical trial. *Ophthalmologica* 1993;206(1):1-14.

Hayreh SS. Anatomie und Blutversorgung des Sehnerven. In: Pillunat L-E, Stodtmeister R, eds. *Das Glaukom*. Heidelberg: Springer-Verlag, 1993:3-20.

Hayreh SS. Die Bedeutung vasculärer Faktoren in der Pathogenese des Glaukomschadens. In: Pillunat L-E, Stodtmeister R, eds. *Das Glaukom*. Heidelberg: Springer-Verlag, 1993:34-58.

Wells KK, Pulido JS, Judisch GF, Ossoinig KC, Fisher TC, La-Brecque DR. Ophthalmic features of Alagille syndrome (arteriohepatic dysplasia). *J Pediatr Ophthalmol Strabismus* 1993;30(2):130-5.

Shults WT, Hamby S, Corbett JJ, Kardon R, Winterkorn JS, Odel JG. Neuro-ophthalmic complications of intracranial catheters. *Neurosurgery* 1993;33(1):135-8.

Kardon RH, Hauptert CL, Thompson HS. The relationship between static perimetry and the relative afferent pupillary defect. *Am J Ophthalmol* 1993;115(3):351-6.

Kwitek-Black AE, Carmi R, Duyk GM, Buetow KH, Elbedour K, Parvari R, Yandava CN, Kardon RH, Thompson HS. Congenital and acquired anisocoria in children. In: Cibis GW, Tongue AC, Stass-Isern ML, eds. *Decision Making in Pediatric Ophthalmology*. St. Louis: BC Decker Mosby-Year Book, 1993:26-7.

Drack AV, Keech RV. Complete cataract. In: Cibis GW, Tongue AC, Stass-Isern ML, eds. *Decision Making in Pediatric Ophthalmology*. St. Louis: BC Decker Mosby-Year Book, 1993:36-7.

Drack AV, Keech RV. Partial cataract. In: Cibis GW, Tongue AC, Stass-Isern ML, eds. *Decision Making in Pediatric Ophthalmology*. St. Louis: BC Decker Mosby-Year Book, 1993:32-25.

(continued on page 8)

Faculty/Staff Publications

(continued from previous page)

Nichols BE, Drack AV, Vandenburg K, Kimura AE, Sheffield VC, Stone EM. A 2 base pair deletion in the RDS gene associated with butterfly-shaped pigment dystrophy of the fovea. [Published erratum appears in Hum Mol Genet 1993;2(8):1347]. Hum Mol Genet 1993;2(5):601-3.

Nichols BE, Sheffield VC, Vandenburg K, Drack AV, Kimura AE, Stone EM. Butterfly-shaped pigment dystrophy of the fovea caused by a point mutation in codon-167 of the rds gene. Nat Genet 1993;3(3):202-7.

Mathers WD. Ocular evaporation in meibomian gland dysfunction and dry eye. Ophthalmology 1993;100(3):347-51.

Mathers WD, Binarao G, Petroll M. Ocular water evaporation and the dry eye: a new measuring device. Cornea 1993;12(4):335-40.

Yu DD, Lemp MA, Mathers WD, Espy M, White T. Detection of varicella-zoster virus DNA in disciform keratitis using polymerase chain reaction [letter]. Arch Ophthalmol 1993;111(2):167-8.

Mathers WD. Blepharitis in childhood. In: Cibis GW, Tongue AC, Stass-Isern ML, eds. Decision Making in Pediatric Ophthalmology. St Louis: BC Decker Mosby-Year Book, 1993:162-3.

Fantin A, Feist RM, Reddy CV. Intracranial hypertension and papilloedema in chronic inflammatory demyelinating polyneuropathy. Br J Ophthalmol 1993;77(3):193.

Burke JP, Scott WE, Kutschke PJ. Anterior transposition of the inferior oblique muscle for dissociated vertical deviation. Ophthalmology 1993;100(2):245-50.

Drack A, Kutschke PJ, Stair S, Scott WE. Compliance with safety glasses wear in monocular children. J Pediatr Ophthalmol Strabismus 1993;30(4):249-52.

Morris RJ, Scott WE, Dickey CF. Fusion after surgical alignment of longstanding strabismus in adults. Ophthalmology 1993;100(1):135-8.

Burke JP, Scott WE. Diagnostic use of prisms in strabismus. In: Cibis GW, Tongue AC, Stass-Isern ML, eds. Decision Making in Pediatric Ophthalmology. St. Louis: BC Decker Mosby-Year Book, 1993:188-9.

Burke JP, Scott WE. Therapeutic use of prisms. In: Cibis GW, Tongue AC, Stass-Isern ML, eds. Decision Making in Pediatric Ophthalmology. St. Louis: BC Decker Mosby-Year Book, 1993:190-1.

Emery MM, Siegfried EC, Stone MS, Stone EM, Patil SR. Incontinentia pigmenti: transmission from father to daughter. J Am Acad Dermatol 1993;29(2 pt 2):368-72.

Stone EM, Sheffield VC. Linkage of Bardet-Biedl syndrome to chromosome 16q and evidence for non-allelic genetic heterogeneity. Nat Genet 1993;5(4):392-6.

Nichols BE, Sheffield VC, Stone EM. A user-friendly hypercard interface for human linkage analysis. Comput Appl Biosci 1993;9(6):757-9.

Sheffield VC, Beck JS, Kwitek AE, Sandstrom DW, Stone EM. The sensitivity of single-strand conformation polymorphism analysis for the detection of single base substitutions. Genomics 1993;16(2):325-32.

Sheffield VC, Stone EM, Alward WLM, Drack AV, Johnson AT, Streb LM, Nichols BE. Genetic linkage of familial open angle glaucoma to chromosome-1q21-q31. Nat Genet 1993;4(1):47-50.

Weleber RG, Carr RE, Murphey WH, Sheffield VC, Stone EM. Phenotypic variation including retinitis pigmentosa, pattern dystrophy, and fundus flavimaculatus in a single family with a deletion of codon 153 or 154 of the peripherin/RDS gene. Arch Ophthalmol 1993;111(11):1531-42.

Johnson AT, Drack AV, Kwitek AE, Cannon RL, Stone EM, Alward WLM. Clinical features and linkage analysis of a family with autosomal dominant juvenile glaucoma. Ophthalmology 1993;100(4):524-9.

Stone EM, Nichols BE, Wolken MS, Montague PR, Thompson HS. New normative data for the Farnsworth-Munsell 100-hue test. In: Drum B, ed. Colour Vision Deficiencies XI. Kluwer Academic Publishers, 1993:303-320.

Thompson HS. Alson Emmons Braley, 1906-1993. Am J Ophthalmol 1993;116(2):259-60.

Wall M. Multiple sclerosis. In: Albert DM, Jakobiec F, eds. Principles and Practice of Ophthalmology. v. 4. Philadelphia: WB Saunders, 1993.

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Faculty/Staff Publications

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Spector SA, Weingeist TA, Pollard RB, Dieterich DT, Samo T, Benson CA, et al. A randomized, controlled study of intravenous ganciclovir therapy for cytomegalovirus peripheral retinitis in patients with AIDS. AIDS Clinical Trials Group and Cytomegalovirus Cooperative Study Group. *J Infect Dis* 1993;168(3):557-63.

Brown DM, Weingeist TA. Vitreoretinopathies. In: Cibis GW, Tongue AC, Stass-Isern ML, eds. *Decision Making in Pediatric Ophthalmology*. St. Louis: BC Decker Mosby-Year Book, 1993:136-7.

1994

Alward WLM. *Color Atlas of Gonioscopy*. London: Wolfe, 1994.

Boldt HC, Brown DM, McGeorge AJ. Echographic diagnosis of degenerative retinoschisis facilitated by scleral indentation. *Am J Ophthalmol* 1994;118(1):124-.

Han DP, Want Q, Hartz A, Jaffe GJ, Murray TG, Boldt HC, et al. Postoperative fibrin formation and visual outcome after pars plana vitrectomy. *Retina* 14(3): 225, 1994.

Han DP, Nanda SK, O'Brien WJ, Guy J, Murray TG, Boldt HC. Evaluation of anterior segment tolerance to short-term intravitreal perfluoron. *Retina* 14(3):219, 1994.

Buus DR, Tse DT, Folberg R. Microscopically controlled excision of conjunctival squamous cell carcinoma. *Am J Ophthalmol* 1994;117(1):97-102.

Rummelt V, Gardner LMG, Folberg R, Beck S, Knosp B, Moninger TO, Moore KC. Three-dimensional relationships between tumor cells and microcirculation with double cyanine immunolabeling, laser scanning confocal microscopy, and computer-assisted reconstruction: an alternative to cast corrosion preparations. *J Histochem Cytochem* 1994;42(5):681-6.

Rummelt V, Naumann GOH, Folberg R, Weingeist TA. Surgical management of melanocytoma of the ciliary body with extrascleral extension. *Am J Ophthalmol* 1994;117(2):169-76.

Hershey JM, Pulido JS, Folberg R, Massicotte SJ. Non-caseating conjunctival granulomas in patients with multifocal choroiditis and panuveitis. *Ophthalmology* 1994;101(3):596-601.

Rummelt V, Folberg R, Rummelt C, Gruman LM, Hwang T, Woolson RF, Yi H, Naumann GOH. Microcirculation architecture of melanocytic nevi and malignant melanomas of the ciliary body and choroid: A comparative histopathologic and ultrastructural study. *Ophthalmology* 1994;101(4):718-27.

Pe'er J, Rummelt V, Mawn L, Hwang T, Woolson RF, Folberg R. Mean of the ten largest nucleoli, microcirculation architecture, and prognosis of ciliochoroidal melanomas. *Ophthalmology* 1994;101(7):1227-35.

Brown DM, Sobol WM, Folk JC, Weingeist TA. Retinal arteriolar macroaneurysms: Long term visual outcome. *Br J Ophthalmol* 1994;78(7):534-8.

Folk JC, Reddy CV. White dot chorioretinal inflammatory syndromes. In: Lewis H, Ryan SJ, eds. *Medical and Surgical Retina: Advances, Controversies, and Management*. St. Louis: Mosby-Year Book, 1994.

Maguire MG, Fine SL, Folk JC, Bressler NM, Javornik NB, Alexander J, et al. Visual outcome after laser photocoagulation for subfoveal choroidal neovascularization secondary to age-related macular degeneration: the influence of initial lesion size and initial visual acuity. *Arch Ophthalmol* 1994;112(4):480-8.

Loeffler KU, Hayreh SS, Tso MOM. The effects of simultaneous occlusion of the posterior ciliary artery and vortex veins: a histopathologic study. *Arch Ophthalmol* 1994;112(5):674-82.

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Faculty/Staff Publications

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Hayreh SS, Zimmerman MB, Podhajsky P, Alward WLM. Nocturnal arterial hypotension and its role in optic nerve head and ocular ischemic disorders. *Am J Ophthalmol* 1994;117(5):603-24.

Hayreh SS. Progress in the understanding of the vascular etiology of glaucoma. *Current Opinion in Ophthalmology* 1994; 5(ii):26-35.

Hayreh SS, Zimmerman MB, Podhajsky P. Incidence of various types of retinal vein occlusion and their recurrence and demographic characteristics. *Am J Ophthalmol* 1994;117(4):429-41.

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CALENDAR OF EVENTS 1994

Clinical Conferences & Professional Meetings

1994

- October 7 23rd Wolfe Lecture
Thomas M. Aaberg, MD, Emory University Eye Center - Retina
- October 28 - November 3
American Academy of Ophthalmology, San Francisco
Iowa Eye Association reception: Tuesday, November 1, 6:30-9:00 pm
Hyatt Regency San Francisco, Grand Ballroom C
- December 2 Creig S. Hoyt, MD, University of California - Pediatric Ophthalmology

1995

- February 3 Nancy J. Newman, MD, Emory University Eye Center - Neuro-ophthalmology
- March 3 Douglas D. Koch, MD, Cullen Eye Institute, Baylor - Cataract
- April 7 Gerald J. Harris, MD, Medical College of Wisconsin - Orbit and Oculoplastics
- June 8-10 Iowa Eye Meeting
Topics and guests to be announced

NEWS OR COMMENTS?

Name: _____

Address: _____

Telephone: _____

News or Comment: _____

Please return to:

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UPDATE

In 1995, the curriculum of the College of Medicine will include for the first time, a 2-week, required rotation in ophthalmology for all medical students. It has been a long time coming. The last major revision of the curriculum occurred when Dr. Bruce E. Spivey chaired the Curriculum Committee. Although he tried, he was unsuccessful in establishing an ophthalmology rotation. Ironically, more than 20 years later, another ophthalmologist, Dr. Thomas A. Farrell, was charged with revising the curriculum and this time, we succeeded.

Why, when there are indications of too many ophthalmologists and optometrists, should we be concerned with educating medical students? Historically, ophthalmology

has played a small role in medical student education nationally, and yet ophthalmology residents are consistently ranked among the brightest and best medical students. The fact that most of our medical colleagues have a limited appreciation for what we do is undoubtedly a result of our not having been involved in their education.

With changes in health care, primary care physicians will require a far better understanding of ophthalmology than most have today. The task of developing a meaningful curriculum for 175 medical students and devising a worthwhile clinical experience will not be an easy task. Dr. John E. Sutphin, Associate Professor and member of the Cornea and External Disease Service, has

accepted the challenge and will serve as Director of Medical Student Education for the Department. In addition to being an excellent physician and surgeon, Dr. Sutphin has gained invaluable experience as a teacher and former Chairman of the Department of Ophthalmology at the San Diego Naval Hospital. His organizational skills and understanding of what is educationally important for non-ophthalmologists will be a tremendous asset. With the help of our entire faculty, we will all take part in this new educational process shortly before we move to the Pomerantz Family Pavilion and the new Eye Institute. It will be an exciting time for all of us.

Thomas A. Weingeist

The Iowa Eye Reception during the American Academy of Ophthalmology meeting is scheduled for **Tuesday, November 1, at the Hyatt Regency San Francisco, Grand Ballroom C, 6:30 to 9:00 pm.**

We are looking forward to seeing you all there.

Iowa Eye Association, inc.

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