

Robert Peiffer, DVM, PhD

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Peiffer RL, Intraocular tumors. In Small Animal Ophthalmology Secrets (R Riis ed). Hanley and Belfus , Philadelphia, 287-297, 2001.

Peiffer RL, Simons KB: Orbital Tumors. In Ocular Tumors in Animals and Humans, ISU Press, Ames, 2002: 3-24.

Peiffer RL, Clerc B, Riis RC: Iridociliary Epithelial Tumors. In Ocular Tumors in Animals and Humans, ISU Press, Ames, 2002:203-224.

Peiffer RL, Eksten B: Glaucoma. Mammal-eye: the Book (on line, www.mammaleye.com), 2002

Grahn BH. Peiffer RL: Fundamentals of Veterinary Ophthalmic Pathology. Veterinary Ophthalmology 4th ed (KN Gelatt ed), Blackwell Publishing, Ames IA 2007:355-437

BOOK REVIEWS:

Veterinary Ophthalmic Pathology, Saunders and Rubin. J Can Pract 3:68-69, 1976.

Canine Ophthalmology, WG Magrane. J Can Pract. 4, 1977

Veterinary Ophthalmic Surgery, SF Bistner, et. al. J Can Pract. 5(April 1978):64, J Fel Pract 8(July 1978):11.

Veterinary Ophthalmic Pharmacology and Therapeutics, KN Gelatt, J Can Pract. 6(May-June 1979):73-75, J Fel Pract, and J Equine Pract 1(May-June 1979):57.

Atlas of Ophthalmology in Dogs and Cats, I Walde et al, J. Fel Pract 19 (July-August 1991):35.

Veterinary Ophthalmology, 2nd Edition, KN Gelatt. J Fel Pract 20 (Sept-Oct 1992)

Manual of Oculotoxicity Testing of Drugs. O. Hockwin, K Green. Prog Vet Comp Ophthal 2:174, 1992

Ocular disorders proven or suspected to be hereditary in dogs. Can Pract 19:28-29. (March-April 1994).

Handbook of Small Animal Ophthalmic Surgery. Vol 1: Extraocular procedures. KN Gelatt, Vet Comp Ophthalmol 5:143, 1995

PRESENTATIONS:

Papers

Consecutive water provocative tests in beagles bred for glaucoma, American College of Veterinary Ophthalmologists, Dallas, TX, 1974 (Kirk N, Gelatt, presenter).

Microphthalmia and multiple colobomas in the Australian Shepherd Dog, Phi Zeta Scientific Forum, University of Minnesota, St. Paul, MN, 1974.

Determination of the in vitro and in vivo canine facility of outflow using tonographic and constant pressure perfusion technique, American College of Veterinary Ophthalmology, Dallas, TX, October 1975.

Calibration of the Schiottz tonometer for the canine eye, Phi Zeta Scientific Forum, University of Minnesota, St. Paul, MN, 1976.

Adenoma of the ciliary body in a great dane, Georgiana Dvorak Theobald Society of Ophthalmic Pathology, Omaha, NE, May 1976.

Posterior Sclerectomy, Cyclodialysis, and Trans-scleral Iridencleisis; Technique and Results, Glaucoma Workshop, ACVO, Las Vegas, NV, Oct 1, 1976.

Calibration of the Schiottz tonometer for the canine eye, ACVO, Las Vegas, NV, October 1976.

The effects of epinephrine and dipivalyl epinephrine in the normal and glaucomatous beagle, ACVO, Las Vegas, NV, October 1976 (RM Gwin presenter).

Tonometer calibration and accuracy in veterinary ophthalmology, University of Florida, Gainesville, FL, October 1976.

Ocular Blastomycosis in a dog, Georgiana Dvorak Theobald Society of Ophthalmic Pathology, Iowa City, IA, April 1976.

The effect of topical pilocarpine on intraocular pressure and pupil size in the normotensive and glaucomatous beagle, ACVO, Dallas, TX, October 1977 (RM Gwin, presentor).

Anterior vitrectomy in the dog. ACVO, Dallas, TX, October 1977.

The Schirmer tear test in the equine; normal values and the contribution of the gland of the nictitating membrane, ACVO, Equine Workshop, Dallas, TX, 1977 (J Manning, Presentor).

Response of lymphocytes from dogs affected with chronic superficial keratitis to soluble homologous corneal antigens, ARVO Eastern Section Meeting, Gainesville, FL, November 1977, ACVO, Kansas City, KS, 1978.

Ocular manifestations of lymphosarcoma in a dog, Georgiana Dvorak Theobald society, Chicago, IL, 1978.

Pressure-volume relationships of the normal canine eye. ACVO, Kansas City, KS 1978.

Ocular histoplasmosis in the cat: (with Belkin PV) ASVO/AAHA, 46th Annual Meeting, New Orleans, LA, April 1979.

Animal models of ocular disease in man, NC Medical Society, Pinehurst, NC, May 1979.

Ocular manifestations of disseminated histoplasmosis in a cat, Theobald Society of Ophthalmic Pathology, Rochester, MN, May 1979.

Dysthyroid orbital disease in macaca fascicularis (with Grimson BS, McCartney J, Johnson PT, and Wilkerson B) ACVO, San Francisco, CA, November 1979; American Society of Primatology, Winston-Salem, NC, June 1980.

Pharmacodynamics of delta-9 tetrahydrocannabinol in the dog, (with Merritt J), ACVO, San Francisco, CA, 1979.

Regeneration of the Canine Endothelium: Clinical specular microscopic, light microscopic, and scanning electron microscopic observations (with Stapleton S, Befanis P, Brown D) ACVO, San Francisco, CA, November 1979, UNC-McPherson Annual Staff Meeting, Durham, NC, December 1979.

Cryptococcosis in man and cat, Georgiana Dvorak Theobald Society of Ophthalmic Pathology, UNC, Chapel Hill, NC, April, 1980, (Meeting host and director).

Sarcoidosis and ocular disease in a young child, Southern Medical Association, San Antonio, TX, November 1980 (Cohen KL, co-author and presenter).

Differential diagnosis of pigmented intraocular lesions, International Society of Veterinary Ophthalmology, World Veterinary Congress, Barcelona, Spain, September 1980.

Myofibroblasts in the healing of filtering wounds in rabbit, dog and cat. ACVO, Chicago, IL, October 1980.

Comparative Ophthalmology: Congenital and degenerative diseases, Nebraska Ophthalmology society, Omaha, NE, November 1980.

Healing of filtering wounds, McPherson-UNC annual staff conference, Durham, NC, December, 1980.

Ocular lesions following intracerebral injection of herpes simplex virus type I, ACVO, Atlanta, GA, October 1981; UNC Annual Resident conference, Chapel Hill, NC, 1981, ARVO, Sarasota, FL, May 1982 (with Sibrack C, Siegel F).

Refractive corneal surgery--The use of implantable alloplastic lens material. Contact lens symposium, Las Vegas, October 1982; International Meeting of the Ophthalmologic society, Sydney, Australia, September 1982, (with Werblin TP, Blaydes JE, Fryczkowski A: Werblin TP presentor).

Epikeratophakia: One alternative for aphakic patients who are not IOL candidates. IOL Symposium, Los Angeles, CA (with Werblin TP, Blaydes JE, Fryczkowski A: Werblin TP, presentor).

Ocular Coccidioidomycosis, Theobald Society, Clearwater, FL March 5, 1982.

New approaches to the treatment of keratoconus (with Werblin TP, Fryczkowski A, Blaydes JE, Kaufman HE: Werblin TP presentor). The 41st clinical meeting, residents association of the Wilmer Ophthalmological Institute, Baltimore, MD, April 22, 1982.

Anterior lenticonus in a cat. Joint meeting of the American Society of Veterinary Ophthalmology and the International Society of Veterinary Ophthalmology, Las Vegas, NV, April 26, 1982.

Anterior segment dysgenesis with retinal dysplasia in Doberman Pinschers. ACVO, Lake Tahoe, October 1982 (with CA Fischer: Fischer CA presentor)

Orbital osteoma in a dog. ACVO, Lake Tahoe, October 1982 (with Harling DE, and Crane S, Harling DE presentor)

Infections keratoconjunctivitis in the Italian Chamois. ACVO, Lake Tahoe, October 1983 (with Peruccio C, and Cook CS; Peruccio C and Cook CS presentors).

Posterior chamber intraocular lens in rabbits, Resident's Day, UNC

Chapel Hill, NC, December 1982 (with Hernandez E, and Eifrig DE).

Choroidal tuberculoma, Georgiana Dvorak Theobald Society of Ophthalmic Pathology, Lexington KY April 1983; American Assoc Ophthalmic Pathology, Chicago, IL November 1983.

Intravenous digital subtraction angiography of orbital and choroidal circulation. Am Acad Ophthalmology, Chicago IL November 1983 (with Fryczkowski AW, Delany DL, Grimson BS, Brenson BS; Fryczkowski AW presentor)

Myopic and hyperopic hydrogel keratophakia. Am Acad Ophthal, Chicago IL, November 1983, (with Werblin TP, Blaydes JE, Fryczkowski AW).

Ocular effects of intracamerally administered neuropeptides in the rabbit (with Hernandez, Simons K, Prange A, Nemerhoff C) ACVO, Chicago IL, November 1983.

Microphthalmia and multiple ocular anomalies in Wisconsin White Tailed Deer (with Cook CS, Amundson T; Cook CS presentor), ACVO, Chicago, IL, November 1983.

Modification of the Opossum RPE for scotopic function. Resident's Day, Chapel Hill, NC, December 1983.

Acute retinal and choroidal ischemia, Hogan-Theobald Society of Ophthalmic Pathology, Salt Lake City, UT, March 1984.

Silicone posterior chamber intraocular lenses in rabbits: A clinicopathologic study: Amer Intra-ocular Implant Society, Los Angeles, CA, April 1984; Bluefield Course of IOL/PE, Greenbrier, WV, May 1984; STAAR Symposium AAO, San Francisco, CA, September 1985.

Melanocytic tumors of the canine and feline orbit and adnexa. ISVO/WSAVMA, Hamburg, Germany, September 1984.

Intracameral alpha-MSH elevates intraocular pressure in rabbits, ACVO, Atlanta, GA, November 1984 (with Hernandez D, Simons K, King M)

Histopathology of hydrogel implants. Amer Assoc Ophthal Path/Amer Acad Ophthal, Atlanta, GA, November 1984 (with Werblin TA, Fryczkowski AW)

Silicone intraocular lenses: Bluefield PKE/IOL Course, White Sulphur Springs, WV, May 1985.

Melanocytic tumors of the canine eye: ACVO, San Francisco, CA, September 1985 (with Wilcock B; Wilcock B presenter)

Canine intraocular lenses: ACVO, San Francisco, CA, September, 1985 (with Cook CS, Ginsberg G).

Histopathology of the silicone intraocular lens in rabbits and monkeys. STAAR elastic lens symposium, AAO, San Francisco, CA, September 1985.

Ultrastructure and immunochemistry of pars plana cysts in multiple mylenoma. Georgiana Dvorak Theobald Society of Ophthalmic Pathology, San Antonio, TX, March 1985.

Comparative morphology of canine and feline ocular melanomas. ARVO, Sarasota, FL, May 1985.

Intraocular lenses in the canine: Philosophies and physical implant characteristics. ACVO, San Francisco, CA, September 1985 (with Cook CS, dual presentation).

Experimental Histopathology of PMMA and silicone intraocular lenses in rabbits. CLAO, Las Vegas, NV, January 1986 (with Cook CS; Cook CS presenter). Acute Photoreceptor necrosis. Theobald society, New Orleans, LA, March 1986.

Results following implantation of canine intraocular lenses. ACVO, New Orleans, LA, November 1986 (with Cook CS, Moore C, Pickett P, Swanson J, Dubiekig R)

Primary ocular sarcomas in the cat. International Society of Veterinary Ophthalmology, New Orleans, LA, November 1986.

Lens-induced uveitis in animals. ACVO, New Orleans LA, November 1986 (with Wilcock B; Wilcock B presenter).

Refractive procedures using synthetic materials: A safe and effective means of correcting aphakia. AAO, New Orleans LA, November 1986 (with Werblin TP, Patel AS; Werblin TP presenter).

Ocular tumors in the dog and cat. World Small Animal Association, Paris, France, December 1986.

Essential iris atrophy. Theobald Society of Ophthalmic Pathology, Captiva Island, FL, May 1987.

Keratopathy following intracameral viscoelastic substances in Dutch Belted Rabbits. Fifth Congress of the European Intraocular Implant Lens Council, Jerusalem, Israel, September 1987 (with Friedland BP, Shobe SL, Langdon JD, Boyd JE; Friedland BP presenter).

Acid fast organism associated with corneal opacities in a dog. ACVO, Dallas, November 1987 (with Fischer CA)

Pre-iridal fibrovascular membranes: comparative perspectives. ACVO, Dallas, November 1987 (with Yin H, Wilcock BP)

Experimental results of memory lens implantation in rabbits. ORC symposium on the memory lens, AAO, Dallas, November 1987.

A new technique for avoiding late capsular clouding. ASCRS, Los Angeles, CA, March 1988, (with S Dubroff; S. Dubroff, presenter)

Long term experience with CooperVision/Cilco intracorneal lenses in non-human primates. ASCRS, Los Angeles, CA, March 1988, (with TP Werblin; TB Werblin, presenter).

Protective effects of viscous solutions during phacoemulsification and lens implantation. SDCRS, Los Angeles, CA, March 1988, (with DB Glasser; DB, presenter).

Extracapsular lens extraction and IOL implantation in the canine. Kelman Phacoemulsification course, New York, February 1988.

Effects of Gm-1 ganglioside on the optic nerve and retina in experimental glaucoma. ARVO, Sarasota, FL, May 1988, (with JB Pettito, G Suits, TW Bouldin, DA Nichols, TJ Walsh, DE Eifrig; JB Pettito, presenter).

Orbital Whipples Disease. Theobald Society, Cleveland, Ohio, May 1988.

Scleritis. American Uveitis Society/ACVO Workshop, Las Vegas, Nevada, October 1988.

Canine membranous conjunctivitis. American Uveitis Society/ACVO Workshop, Las Vegas, Nevada, October 1988.

Feline uveitis: a retrospective histopathologic study. ACVO, Las Vegas, Nevada, October 1988 (with Wilcock BP, King CJ).

Feline glaucoma. ACVO, Las Vegas, Nevada, October 1988. (with Wilcock BP; B.P. Wilcock, presenter).

Feline ocular melanomas and sarcomas. AAHA, St. Louis, Mo, April 1989.

Feline uveitis. AAHA, St. Louis, MO, April 1989. Intraocular lenses in canine cataract surgery. AAHA, St. Louis, MO, April 1989.

Clinical and histopathologic effects of subtotal retinectomy in a rabbit model. ARVO, Sarasota, Florida, May 1989 (with Orgel I, Eifrig DE; I. Orgel, presentor)

Idiopathic granulomatous blepharomyositis. Theobald Society, Oklahoma City, April 1989.

Viscoelastic in veterinary ophthalmology ACVO. New Orleans, October 1989.

Intraocular lens implantation in canine cataract surgery. ACVO, New Orleans, October 1989 (with J Gaiddon)

Phakic anterior chamber intraocular lenses in a primate model, ASCRS, Los Angeles, CA, March 1990 (with D Porter, D Eifrig, J Boyd; D Eifrig presentor)

Pathology of canine glaucoma. ASVO/ISVO, San Francisco, CA March 1990 (with R Smith; R Smith, presentor)

Ophthalmic phacoxyphomycosis ASVO/ISVO, San Francisco, CA March 1990

a) Congenital corneal staphyloma (b) retinal vascular hematoma, c) pannus, SEVOS, Sarasota, FL, May 1990

Cyclophosphamide induced ocular malformations in a mouse model. ARVO Sarasota, FL, May 1990 (with BK McCullen, KK Sulik, AJ Alleles, and DE Eifrig; BK McCullen presentor); ACVO, Phoenix, October 1990

Ocular malformations associated with agnathia-holoprosencephaly syndrome. Theobald Ophthalmic Pathology Society Meeting, Philadelphia, PA, May 1990

Prevention of late capsular clouding by intra-operative subcapsular osmolysis ASCRS, Boston, MA, April 1991 (with S. Dubroff and K. Dastgheib; S. Dubroff presenter)

(a) Endogenous endophthalmitis due to a filamentous gram positive organism in a dog; (b) bacterial endophthalmitis following cataract surgery; (c) conjunctival melanocytosis in a dog. SEVOS, Sarasota, FL April 1991.

Uveal choristoma in neurofibromatosis. Theobald Society, Hilton Head, SC, May 1991.

Ocular lesions in ICR BR mice, ACVO, Boston MA, Sept 1991 with C. Sturbaum, T. Davis.

Late onset inherited retinal degeneration in the Collie dog, ISVO, Vienna, Austria, Oct 1991 (with R Munger; R Munger, presenter)

Histopathologic Characteristics of Feline Ocular Lymphosarcoma. ACVO/ACVP, San Diego, CA, Nov 1992 (with K Corcoran; K Corcoran presenter).

Familial Erythrophagocytic Histiocytosis. Theobald Society, Arkansas, 1993

Glaucoma in the Chow Chow. ACVO/ISVO, Scottsdale, AZ. Oct 1993 (with K. Corcoran and S Koch; K Corcoran, presenter)

Choroidal Melanomas in Eight Dogs. ACVO/ISVO Scottsdale, AZ Oct 1993 (with P Collinson)

The Role of the Ophthalmologist in the Medical School Curriculum. Teaching Scholars Program, UNC, Chapel Hill. October 1993

TGF alpha and ocular development. ARVO, Sarasota, FL, May 1994; ACVO San Francisco, October 1994

Experimental evaluation of a hydroxyapatite reservoir tube shunt in rabbits. NC Med Assoc, Greensboro, November 1994 (with DE Eifrig, A Pandya, C Rich; DE Eifrig presenter)

Glaucoma in the Norwegian Elkhound. ACVO, San Francisco, October 1994 (with E Bjerkas; E Bjerkas presenter)

Response of feline ocular epithelia to growth factor. ACVO, San Francisco, October 1994, (with C Wong, CM Osborne and S Oglesbee; C Wong, presenter)

Physiologically-based modeling of lead effects in rats photoreceptors. Soc Tox, Baltimore 1995, (with Geller AM, Osborne CM; AM Geller, presenter)

Ocular toxicity following 13 weeks of exposure to the organophosphate insecticide Fenthion. Soc Tox, Baltimore, April 1995, (with WK Boyes, JP O'Callaghan, K Jensen, P Tandon, CN Pope, M Bercegeny and S Padella; WK Boyes, presenter)

Histopathology of canine cataract complications, ISVO, Amsterdam, April 1995 (with P Collinson)

An interesting case of Peters' Anomaly: Georgia Dvorak Theobald Society, Kiawah Island, SC, May 1995

An experimental antipsychotic agent targets tapetum lucidum in canine eyes. Int Soc Ocular Tox, Asheville, NC, October 1996 (with JE Dillberger, M Dykstra, MO Mara, DL Patel; JE Dillberger, Presenter)

Ocular toxicity done to combined systemic administration of 5-fluorouracil (5-FU) and 776C85. Int Soc Ocular Tox, Asheville NC, October 1996(with JE Dillberger, T Brodie, A Rowland).

Tolosa Hunt Syndrome. Hogan-Theobald Society of Ocular Toxicology, San Diego, May 1997

Ten years of pseudophakia. ACVO, Santa Fe, November 1997 (with Dr. Harling; presenter)

Epithelial neoplasia in four cases of pigmentary keratitis. ISVO, Santa Fe, November 1997 (with M Bernays and D Fleming; Dr. Bernays, presenter).

Retinal detachments in dogs: A retrospective histopathologic study. ISVO, Santa Fe, November 1997 (with S Marsilli; S. Marsilli, presenter)

Intravitreal Cidofovir^R in the management of glaucoma in dogs and cats. ISOT Riom, France, October 1998.

Immunohistochemistry and polymerase chain reaction for detection of feline leukemic virus and feline sarcoma virus in six cases of feline ocular sarcoma (with CL Cullen, DM Haines, ML Jackson, BH Grahn, CL Cullen, presenter, ACVO, Seattle, October 1998

Intravitreal cidofovir (Vestider^R) in the management of glaucoma in the dog and cat (with DE Harling, DE Harling, presenter), ACVO, Seattle, October 1998)

Corneal endothelial agenesis, Hogan-Theobald Society of Ophthalmic Pathology. San Diego, CA, September 1999

A foldable intraocular lens (the CANI/JAG) designed for the canine eye: surgical technique and preliminary results (with J Gaiddon and P. L'allement), ACVO, Chicago, November 1999.

Cataractogenesis in the OXYS strain of rats (with S.Marsili, RI Salganik, DD Albright, MJ Costello, CW Lane, S Marsili presenter), ISOT, Kiawah Island, SC, October 2000.

Immunohistochemical and histochemical characterization of 30 primary feline ocular neoplasms (with BH Grahn, CL Cullen, DM Haines, BH Grahn presenter), ACVO, Montreal, October 2000.

Fuchs' dystrophy, Combined Ophthalmic Pathology Society Meeting, Washington, DC, April 2001

Bilateral intraocular melanoma (with M Bernays), ISVO, Sarasota, FL, October 2001.

Spontaneous lens capsule rupture in diabetic cataracts (with D Fleming and D Harling), ISVO, Sarasota, FL, October 2001

Ocular Melanoma Workshop (co-moderator with S Vanisi), ACVO, Sarasota, FL, October 2001.

Intracorneal invasion of a mucoepidermoid carcinoma (with F Fogt and J Sulewski), Theobald Society of Ophthalmic Pathology, Chicago, Illinois April 2003

Immunohistochemical characterization of feline intraocular neoplasms, ACVO, Washington DC October 2004

(with BH Grahn, CL Cullen, DM Haines, BH Grahn presentor)

Congenital orbital cysts of neural tissue in two dogs. European College of Veterinary Ophthalmologists and European Society of Veterinary Ophthalmology, Porto, June 2005 (with AM. Regnier, I Raymond-Letron,; A. Reigner, presentor)

Inverted papilloma of the lacrimal sac, Eastern Ophthalmic Pathology Society, Boston, October 2005 (with FFogt, K Quan, and R Gausas, F Fogt presentor)

Eyelid porocarcinoma in a patient with solid organ transplantation, Combined Pathology Meeting, Philadelphia April 2006 (with F. Fogt, M Goodkin, R Gausas)

Comparative aspects of ocular melanocytic neoplasia, Scheie 132nd anniversary meeting, May 2006

EP4 receptor agonists as an ocular hypotensive agent. National Organic Symposium, Durham NC, June 2007 (with L Farand, Y Han, J Coluci, D Slipetz, M-c Mathieu, D Denis, G Grieg, J-F Levesque, M wrona, R Houle, Q Wang, N Chauret, M Ogidigben, L O'Neill-Davis, L Hettrick, WO Cook; L Farand presentor)

Using MRI to Quantify Optic Nerve Injury in Monkeys with Experimental Glaucoma. International Society of Magnetic Resonance in Medicine, Toronto, 2008.(with Alexandre Coimbra, Miller Ogidigben, Lynn O'Neill-Davis, Marie Holahan,, Wayne Sheppard, Jacquelynn J. Cook, Richard Hargreaves, Donald S. Williams; Alexandre Coimbra, presentor)

Niacin causes conjunctivokeratopathy and retinopathy in dogs but not in rats, ISOT, Philadelphia Sept 2008 (with WO Cook, M Bussieres, and R Amin)

Chorioretinal atrophy in Sprague-Dawley rtas, ISOP, Philadelphia, Sept 2008 (with M. Bussieres, WO Cook, D Stoffergren D Wise)

(Autotutorial programs, posters, etc.)

Surgical Techniques for the management of glaucoma, (Autotutorial program) AAHA, 42nd Annual Meeting, 1975 (with Gelatt KN).

Diseases of the Canine Lens, (Autotutorial program), AAHA 44th Annual Meeting, Salt Lake City, UT, 1978 (with Gwin RM and Williams LW).

A Clinical Approach to Acquired Blindness in the Dog, (Autotutorial program), AAHA, 45th Annual Meeting, Salt Lake City, UT, 1978.

Primary Intraocular Tumors in the Dog, (Autotutorial program), AAHA, 46th Annual Meeting, New Orleans, LA, April 1979.

Determination of Intraocular Pressure in Small Animal Practice, (Autotutorial program), AAHA, 47th Annual Meeting, Los Angeles, CA, April 1980.

Fundusoscopic Observations in a Colony of African Green Monkeys (*Cercopithecus Aethiops*), (Poster exhibit), American Society of Primatology, Winston-Salem, NC, June 1980 (with Johnson PT).

Differential Diagnosis of Pigmented Ocular Lesions in the Dog and Cat (Autotutorial program), American Animal Hospital Association, Atlanta, GA, April 1981.

Corneal Disease of Small Animals (Audiotutorial program), *Audio Veterinary Medicine* 5:11, 1981.

Ocular Disease Induced in Mice by Herpes Simplex Virus Type I. (Poster exhibit). *Fed As Soc Exp Biol*, New Orleans, LA, April 1982, (with Siegel FC and Sibrack CP).

Incidence of Non-Typical Phenomena Associated with the Optic Papilla in Six Species of Non-Human Primates. (Poster exhibit). *Am Assoc Lab An Sci*, Washington, DC, October 1982 (with Johnson PT).

Brain and Eye Malformations Following Acute Maternal Ethanol Exposure of Gastrulation Stage Mouse Embryos. (Poster exhibit). *Teratology Society Meeting*, Atlantic City, NJ, 1983 (with Sulik KK, Johnston ML, Schambra U, Zytoma HS Jr., Dehart DB).

Alloplastic for Implants: Histology of Hydrogel Implants. (Poster exhibit). *Association for Research in Vision and Ophthalmology*, Sarasota, FL, May 1983 (with Werblin TP, Fryczkowski AW, Blaydes E).

Intracameral Injection of Neurotension Induces Miosis in Rabbits. (Poster exhibit). *Association for Research in Vision and Ophthalmology*, Sarasota, FL, May 1983 (with Hernandez DE, Pranger AJ, Simons KB, Nemerhoff CB).

Precipitates on Intraocular Lenses: Morphogenesis (poster exhibit). *Association for Research in Vision and Ophthalmology*, Sarasota, FL, May 1983 (with Bryan J, Eifrig DE).

Retinal Vascular Malformations Associated with Fetal Alcohol Syndrome in a Mouse Model (poster exhibit). Association for Research in Vision and Ophthalmology, Sarasota, FL, May 1983 (with Sulik K).

Intracameral administration of alpha-MSH increases IOP in the rabbit (poster exhibit). ARVO, Sarasota, FL, May 1984 (with Hernandez D, Simons K, Prange A).

Circulatory plasma levels of alpha-MSH in controls and patients with chronic open angle glaucoma (poster exhibit). ACVO, Sarasota, FL, May 1984 (with Simons K, Mason G, Hernandez D).

Ocular effects of Neuropeptides (poster exhibit). AAAS, NY, May 1984 (with Hernandez D, Simons K).

Antagonism of Neurotension-Induced Miosis by Thyrotropin Releasing Hormone (TRH) (poster exhibit). ARVO, Sarasota, FL, May 1985 (with Hernandez DE, Simons KR, Spampinato D, Eifrig DE).

Histopathology of Epikeratophakia for Keratoconus: Case Report (poster exhibit). AAO, San Francisco, CA, September 1985, CLAO, Las Vegas, NV, January 1986 (with Werblin TP, Goodman GL).

Pluronic Polyol: A Potential Keratorefractive Material (poster exhibit). ARVO, Sarasota, FL, May 1986 (with Kim J, Holman RE, Eifrig DE).

Embryogenesis of Eye Malformations Following Acute Maternal Alcohol Exposure During Gastrulation (poster exhibit). ARVO, Sarasota, FL, May 1986 (with Cook CS, Sulik KK).

MIF Inhibition of alpha-MSH Induced IOP Elevation and Miosis in the Rabbit (poster exhibit). ARVO, Sarasota, FL, May 1986 (with McCullen BK, Hernandez DE).

Pseudo-Gaucher Cells in the Choroid of Leukemic Patients (poster exhibit). AAO, New Orleans, LA, November 1986 (with Campbell RA, Bouldin TW).

Competitive Inhibition of Steroid-Induced Glaucoma in the Rabbit Model (poster exhibit). UNC Student Research Day, Chapel Hill, NC, January 1987 (with Hester DE, Trites PN, Petrow V).

Primary Ocular Sarcomas in Cats (poster exhibit). ARVO, Sarasota, FL, May 1987.

Cataract Incisions and Post-Operative Astigmatism (poster exhibit), ARVO, Sarasota, FL, May 1987 (with Werblin TP, Patel A).

Rubeosis iridis: comparative aspects (poster exhibit). ARVO, Sarasota, FL, May 1988 (with Wilcock BP and Yin H).

Long term comparative study of the Schocket and Joseph glaucoma tube shunts in monkeys (poster exhibit). ARVO, Sarasota, FL, May 1988 (with Nichols DA and Popovich KS).

The natural history of *Propionibacterium acnes* endophthalmitis in phakic, aphakic, and pseudophakic rabbit eyes (poster exhibit), ARVO, Sarasota, FL, May 1988 (with Cervantes AG, Lisker A, Lewen RL).

Retinal duplication in a mouse mutant (poster exhibit), ARVO, Sarasota, FL, May 1989 (with Cook CS).

Immunoperoxidase identification and characterization of collagen type IV and laminin in eyes from pseudophakic subjects (poster exhibit) ARVO, Sarasota, FL, May 1990 (with JN Wood).

Prevention of late capsular clouding by intraoperative subcapsular osmolysis (poster exhibit). ARVO, Sarasota, FL, May 1991 (with S. Dubroff and K. Dastgheib).

The distribution of glycoconjugates in the lens during embryogenesis (poster exhibit), ARVO, Sarasota, FL, May 1992 (with MJ Abrams, AJ Alles, SS Spicer, RM, Dom).

Late onset progressive retinal atrophy in collie (poster exhibit), ARVO, Sarasota, FL, May 1992 (with RJ Munger).

Corneal keratinization in the OEL/+ mouse (poster exhibit), ARVO, Sarasota, FL, May 1992 (with M Winfrey and H Hunter)

Intralenticular iron in a rabbit model: Clinical and histopathologic correlation (poster exhibit), ARVO, Sarasota, FL, May 1992 (with B McCullen, J Kylstra, H Hunter)

Experimental studies of a hydroxylapatic tube shunt in rabbits (poster exhibit) ARVO, Sarasota FL, May 1993 (with C Rich, A Pandya, E Eifrig, T Hanker)

Cataractogenesis in spontaneously diabetic dogs (poster exhibit) ARVO, Sarasota, FL May 1993 (with AM Hughley, LW Lane, J Costello)

Internal sclerotomy with a mechanical trephine versus YAG contact laser in dogs (poster exhibit) ARVO, Ft. Lauderdale, FL, May 1995 (with J Carter, AD Pandya, CM Osborne, SF Freedman)

Organization of fiber cell cytoplasm in nuclei of normal and cataractous lens, ARVO, Ft. Lauderdale, FL, May 1995 (with MJ Costello, CW Lane, KJ Al-Choul, VI Taylor, AM Hughley)

Toxicity of subretinal mitomycin C, (poster exhibit) ARVO, Ft. Lauderdale, FL, May 1995 (with RC Casey, SR Virata, JA Kylstra, C Osborne)

The response of feline ocular epithelia to growth factors, (poster exhibit) ARVO, Ft. Lauderdale, FL, May 1995, 1995 (with CJ Wong, S Ogslebee, C Osborne C)

Release of oxytetracycline HCl from a polymer conjunctival drug delivery device in a rabbit model (poster exhibit) ARVO, Ft. Lauderdale FL, May 1995 (with CM Osborne, PC Smith, C Wong, AL Weiner)

Retinoblastoma presents with orbital cellulitis: a mechanistic hypothesis (poster exhibit) ARVO, Ft. Lauderdale, FL, 1995 (with A Ben Meir)

Fourier analysis of normal and cataractous nuclear fiber cell cytoplasm (poster exhibit). ARVO, Ft. Lauderdale, FL, May 1996 (with VL Taylor, KJ Al-Ghoul, LW Lane, and MJ Costello)

Chlorpyrifos (CPF) interferes with visually controlled eye growth in chickens. (Poster exhibit) Soc Tox, Cincinnati Mar 1997; ARVO, Ft Lauderdale, 1997 (with AM Geller, AA Abdel-Rahman, MB Abou-Donia, WC Boyes)

Examination of the absorption and intraocular disposition of a model beta adrenergic antagonist with microdialysis (poster exhibit). ARVO, Ft. Lauderdale, FL, May 1997 (with KD Rittenhouse, GM Pollack).

Dose effect for inhibitor of form deprivation myopia (FDM) by chlorpyrifos: roles of retinal TGF-beta 3 and corneal curvature (poster exhibit) SOT, Seattle WA, March 1998; ARVO, Ft. Lauderdale, FL, May 1998; ISOT, Riom, France, October 1998 (with AM Geller, R Maguire, C Lee, AB Abdel-Rahman, MB Abou-Donia, WK Boyes)

Longitudinal corneal topography in form deprivation myopia in conjunction with the pesticide chlorpyrifos (poster exhibit) (with AM Geller, R Maguire, N Hayleal-coates, MB Abou-donia, WK Boyes). ARVO, Ft. Lauderdale, May 1999

Corneal nerve changes secondary to laser cyclophotocoagulation (poster exhibit) (with SM Johnson, RT Stone, AM Geller). ARVO, Ft. Lauderdale, May 1999

Efficacy of regular versus lipid complex amphotericin B in the treatment of exogenous candida albicans endophthalmitis in rabbits (poster exhibit) (with SR Virata, JA Brown, CC Rich, JA Kylstra). ARVO, Ft. Lauderdale, May 1999.

A retrospective study of canine eviscerations: 89 cases from 1989-1999 (poster exhibit) (with TF Evans). ACVO, Chicago, Nov 1999; ARVO, Ft. Lauderdale, May 2000

Cataract in a high oxidative stress rat model (poster exhibit) (with S Marsili, RI Salganik, CD Albright, CW Lane, MJ Costello). ARVO, Ft. Lauderdale, May 2000; Microscopy and Microanalysis 2000, Philadelphia, August 2000 (1st prize-biological sciences)

Functional and morphological retinal effects of the organophosphorous pesticide chlorpyrifos in rats (poster exhibit) (with AM Geller, L Perez, LD Sutton, RS Msrshall,DL Hunter): ARVO, Ft. Lauderdale, May 2002

A comparison of surgical techniques for the optic nerve crush injury in the rat (with C. Buns, A Bone, L. O'Neill-Davis, M. Ogidigben, C. Johnson): JAAALAS, Chat lotte NC Oct 2007

Development of MRI biomarkers of glaucoma: focus on structure and function in the optic nerve and CNS

(with A. Coimbra, M. Ogidigben, M. Holahan, L. O'Neill-Davis, D. Welsh, , W. Shepperd, X. Meng, D. Williams: Merck Innovations in Translation Symposium 2008

I-vation™ KDR: An innovative paradigm for treating ocular disease. (with Andrea Webber, Mark Bilodeau, Sachin Mittal, Jill Maxwell, Lisa Hettrick, Anna Hughes, Qi Linderman, Steve Anderson, Jeff Missling, Signe Erickson, and Catherine Thut. MRL Symposium 2008

VISITING PROFESSORSHIPS AND LECTURESHIPS

Chemotherapy of Small Animal Malignancies. Chicago VMA, Chicago, IL, 1972.

Avian Anesthesia Techniques, guest lecturer. University of Minnesota, 1973. Topics for AAHA sponsored continuing education course for veterinary technicians, Purdue University, West Lafayette, IN, 1974.

Problems in Small Animal Ophthalmology. Minneapolis Veterinary Medical Association, March 1975.

Comparative Ophthalmology - (a) Diagnostic Techniques and (b) Ocular signs of systemic disease. Minnesota Valley VMA and Chain of Lakes Veterinary Association, March 1975.

Ophthalmology Problems in Mixed Practice. Northwest Wisconsin VMA, Eau Claire, WI, March 1975.

Ophthalmology for Small Animal Practitioners, Small Animal Medicine and Surgery Seminar Series. University of Minnesota, St. Paul, MN, July 1975.

Clinical Ophthalmology. Northern Minnesota VMA, Duluth, MN, 1975.

External Ophthalmic Surgery, Short course. University of Minnesota, St. Paul, MN, 1975 (with Gelatt KN, Gwin RM).

(a) Feline Ophthalmology, (b) Ocular Pharmacology and (c) Glaucoma. Denver Area Veterinary Medical Society, Denver, CO, March 1976.

Feline Ophthalmology. Quad Cities Veterinary Medical Association, Rock Island, IL, May 1976.

Glaucoma in the Beagle. University of Tennessee, Knoxville, TN, May 1976; Tufts University, Boston, MA, 1978.

Equine Ophthalmology, Short Course. University of Minnesota, June 1976 St. Paul, MN, (with Gelatt KN, Gwin RM).

Bovine Ophthalmology and Equine Medical Ophthalmology. University of Minnesota Large Animal Seminar Series, St. Paul, MN, June 1976.

Corneal Diseases of the Dog. Southwest Florida VMA, Sarasota, FL, September 1976 (with Gelatt KN, Gwin RM).

(a) Feline Ophthalmology, (b) Canine Eyelid Disease. Columbia Veterinary Medical Association, Columbia, SC, November 1976.

Pannus and Boxer Ulcer. Hillsborough County VMA, Tampa, FL, November 1976.

Common Corneal Diseases and Their Management. Orlando VMA, Orlando, FL, January 1977 (with Gelatt KN, Gwin RM, and Williams LW).

Small Animal Ophthalmology, bimonthly practitioner seminar series. St. Augustine, FL, January 1977-1978.

Feline Ophthalmology. Alachua County, VMA, Gainesville, FL, February 1977 (with Gwin RM).

A Clinical Approach to Acquired Blindness in the Canine Patient. Volusia County VMA, Daytona, FL, March 1977.

Clinical Discussions. Swanee County VMA, Live Oak FL, May 1977 (with Gelatt KN).

Diseases of the Canine Lens. Pinellas County Vet Med Soc, Seminole, FL, May 1977.

Diseases of the Canine Fundus. ASVO/AVMA, Atlanta GA, June 1977.

(a) Feline Ophthalmology, (b) Canine Ulcerative Keratitis. Florida, VMA, Palm Coast, FL, August 1977.

Small Animal Ophthalmology I. Disease of the Orbit and Adnexa. University of Florida, Continuing Education, Gainesville, FL, January 1978.

Cataracts in the Dog. Jacksonville VMA, Jacksonville, FL, January 1978.

Diseases of the Canine Lens. Greensboro VMA, Greensboro, NC, March 1978.

Medical and Surgical Diseases of the Canine Eyelids. Charlotte VMA, Charlotte, NC, May 1978.

Canine Intraocular Tumors. ACVO, Salt Lake City, UT, May 1978.

Feline Ophthalmology. AVMA, Dallas, TX, July 1978.

Animal Models of Human Ocular Disease. NC Optometrists, Raleigh, NC, October 1978.

Ocular Disease in Laboratory Animals. Triangle ILAS, Research Triangle Park, NC, February 1979.

Comparative Ophthalmology. Triangle VMA, Durham, NC, March 1979.

Small Animal Ophthalmology I: Medial and Surgical Disease of the Orbit, Adnexa, and Cornea. (With Parshall CJ, and Buyukmichi N) Course Director, Chapel Hill, NC, March 1979.

Diseases of the Lens. Eastern Carolina VMA, Wilson, NC, August 1979.

New and Interesting Topics in Veterinary Ophthalmology. Eastern Regional Veterinary Ophthalmology Society, Philadelphia, PA, September 1979.

Feline Ophthalmology. NCVMA, Raleigh, NC, January 1980.

Ocular Oncology. Central Carolina, VMA, Greensboro, NC, February 1980.

Ophthalmology for Veterinary Technicians. Central Carolina Technical College, Sanford, NC, March 1980, April 1981, April 1988.

Tonometry in Small Animal Practice. (David Harling presentor), ACVO, Los Angeles, CA, April 1980.

(a) Ophthalmology Update, (b) Ophthalmic Diagnostic Techniques, (c) Getting the Most Out of Your Ophthalmic Instruments and Equipment, (d) Ocular Manifestations of Systemic Disease, (e) Diagnostic and Therapeutic Challenges in Small Animal Practice: Glaucoma, (f) Diagnostic and Therapeutic Challenges in Small Animal Practice: Keratoconjunctivitis Sicca. American Animal Hospital Association, Los Angeles, CA, April 1980.

Anatomy and Physiology of the Eye, North Carolina Enucleation and Sterile Technique Training Course. UNC Chapel Hill, Chapel Hill, NC, May 1980, April 1981, July 1983.

(a) Equine Ophthalmology, (b) Bovine Ophthalmology, (c) Glaucoma, (d) Ocular Manifestations of Systemic Disease, (e) Keratoconjunctivitis Sicca, (f) Intraocular Tumors, (g) Cataracts and Diseases of the Lens. NCVMA, Asheville, NC, May 1980.

Primary Intraocular Tumors of the Dog and Cat. Ontario Veterinary College, Guelph, Canada, June 1980.

Mechanisms, Etiopathogenesis, Appearance, Classification, Inheritability, and Breed Incidence of Cataracts. ASVO/AVMA, Washington, DC, July 1980.

Glaucoma in the Dog and Cat. University of Madrid, Madrid, Spain, September 1980.

Comparative Ocular Oncology. University of Nebraska Medical School, Omaha, NE, November 1980.

Ocular Manifestations of Systemic Disease in The Dog and Cat. Eastern Carolina VMA, Rocky Mount, NC, November 1980. (a) Cataractogenesis, (b) Glaucoma, (c) Ciliary Body Epithelial Tumors, Symposium on Comparative Ophthalmic Pathology (course co-director). UNC, Chapel Hill, NC, December 1980.

(a) Corneal Disease, (b) Ocular Manifestations of Systemic, (c) Ophthalmologic Disease. Pathologic Conference, Rhode Island Veterinary Medical Association, Providence RI, March 19, 1981.

(a) Corneal Disease, (b) Cataracts and Diseases of the Lens, (c) Glaucoma (d) Pigmented Ocular Tumors. Southern California Veterinary Medical Association, Los Angeles, CA, March 1981.

(a) Corneal Disease, (b) Cataracts and Diseases of the Lens, (c) Ocular Oncology, Tidewater Veterinary Medical Association. Norfolk, VA, April 1981.

Pseudorheumatoid Nodules. (with Cohen KL) Georgiana Dvorak Theobald Society of Ophthalmic Pathology, Milwaukee, WI, April 1981.

Corneal Diseases in Large and Small Animals. North Carolina Veterinary Medical Association, Fayetteville, NC, June 1981.

Clinical Ophthalmology. NC Academy of Small Animal Practice. Raleigh, NC, September 1981.

Inherited Ocular Diseases in the Dog. Durham Kennel Club, Burlington, NC, October 1981.

(a) Repair of Eyelid and Corneal Lacerations, (b) Tumor of the Eyelid, Conjunctiva, Sclera, and Cornea, (c) Glaucoma: Etiopathogenesis and Diagnosis, (d) Equine Ophthalmology: Diagnosis and Therapeutics, (e) Corneal Ulceration in the Horse. ACVS Forum, Chicago IL, October 1981.

Corneal Diseases in the Dog and Cat. Region I AAHA Meeting. Stratton, VT, January 1982.

The Contentious Breeder and Inherited Eye Disease. Greensboro Kennel Club, Greensboro, NC, January 1982.

Corneal Disease in the Dog and Cat. Columbia VMA, Columbia, SC, October 1982.

Diagnosis and Management of Glaucoma: An Exercise in Futility?, Western States Veterinary Conference. Las Vegas, NV, February 1983, (with Cook CS, presenter).

Diagnostic Techniques in Posterior Segment Disease. NCVMA Winter Meeting, Raleigh, NC, January 1983.

Ophthalmic Surgery for the Practitioner: Distichiasis and Ectopic Cilia. Region I AAHA Meeting, Stratton, VT, February 1983.

Ophthalmic Procedures for Veterinary Technicians, (b) Congenital and Inherited Ocular Disease in the Dog and Cat, (c) Ocular Tumors, (d) Posterior Segment Disease in the Dog and Cat. American Animal Hospital Association, San Antonio, TX, March 1983.

(a) Canine Ophthalmology, (b) Feline Ophthalmology, (c) Equine Ophthalmology, (d) Ocular Manifestation of Systemic Disease. NCVMA Annual Meeting, Asheville, NC, June 1983.

Common Eye Diseases in Dogs. Durham Kennel Club, Durham, NC, October 1983.

Pigmented Ocular Tumors in the Dog and Cat. NCSU School of Veterinary Medicine, Raleigh NC, May 1984, MSU School of Veterinary Medicine, East Lansing, MI, June 1984.

The role of Teaching, Service, and Research in Clinical, Veterinary Medicine. KSU School of Veterinary Medicine, Manhattan, KS, August 1984.

Canine Cataract Surgery: I. The incision, II. Wound Closure. Ophthalmology Symposium, Toulouse, France, September 1984.

(a) Surgery of Congenital Eyelid Disease; (b) Lens Extraction and Vitrectomy; (c) Ophthalmic Oncology; (d) How to Manage Ocular Tumors. ACVS Surgical Forum, Chicago, IL, October 1984.

Limbal Melanoma in the Dog and Cat. AAHA, Region I Meeting. Stratton, VT, February 1985.

Scleritis in an American Cocker Spaniel. Southeastern Veterinary Ophthalmology Society, Tampa, FL, March 1985 (with Cook CS, Cook presenter).

Diagnostic Techniques in Small Animal Ophthalmology. ASVO/AAHA, Orlando, FL, March 1985.

Pigmented Ocular Tumors in the Dog and Cat. Wisconsin School of Veterinary Medicine, Madison, WI, August 1985.

(a) Red Eye Syndrome; (b) Veterinary Technicians and Small Animal Ophthalmology; (c) Intraocular Gentamicin in the Management of Chronic Glaucoma; (d) Canine Ocular Melanomas; (e) Corneal Dystrophies and Degenerations; (f) Ocular Manifestations of Systemic Disease; (g) Diseases of the Lens; (h) Posterior Segment Disease in the Dog and Cat. AAHA Region I Meeting, Philadelphia, PA, November 1985.

ABVP Core Curriculum: Ophthalmology, Eastern States Veterinary Meeting, Orlando, FL, January 1986.

(a) Ocular Pharmacology and Therapeutics; (b) Orbital Diseases; (c) Management of the Blind Painful Eye. Eastern States Veterinary Meeting, Orlando, FL, January 1986.

Basic Ophthalmic Diagnosis, Central Virginia VMA, Richmond, VA, February 1986.

Specialty Practice and Veterinary Ophthalmology, UNC Pre-Vet Club, Chapel Hill, NC, April 1986.

(a) Adnexal Proliferative Disease; (b) Diseases of the Lens; (c) Glaucoma, Histologic Basis of Ophthalmic Disease. University of Guelph, Guelph, Ontario Canada, May 1986.

The Role of the Academic Clinician. Virginia-Maryland Regional College of Veterinary Medicine, Blacksburg, VA, December 1986.

(a) Cosmetic Therapy of the Blind and Painful Eye; (b) Primary Feline Ocular Sarcomas. Region I AAHA Meeting, Mt. Snow, Vermont, February 1987.

Primary Feline Ocular Sarcomas. Triangle VMA, Durham, NC, May 1987.

(a) Disease of the Canine and Feline Eyelids; (b) Management of the Blind and Painful eye; (c) Diseases of the Lens; (d) Keratoconjunctivitis Sicca. South Carolina Association of Veterinarians, Hilton Head Island, South Carolina, June 1987 (a) Ocular Manifestations of Systemic Disease; (b) Management of the Red Eye. AVMA, Chicago, IL, July 1987

Ocular Immunology. ASVO, Chicago, IL, July 1987

Canine and feline ocular melanomas. University of Illinois, Champaign- Urbana, IL, June 1988.

(a) Pathology of glaucoma; (b) Pathology of the lens, The histologic Basis for Ocular Disease. Purdue University, West Lafayette, IN, June 1988.

Feline Ocular Neoplasms. Auburn University, Auburn, AL, October 1988.

Visiting Professor. Istituto Nazionale per la Ricerca Sul Cancro, Istituto Scientifico per lo studio e la cura dei tumori, Genova, Italy, November 16-30, 1988. (a) Feline Ocular Sarcoma; (b) Canine and

Feline Ciliary Body Epithelial Tumors; (c) Canine and Feline Ocular Melanomas; (d) Comparison of Ocular Tumors Between Man and Animals.

Tumors of the Canine Eyelids. SCIVAC Study Group on Neurology and Ophthalmology, Abano Terme, Italy, November 26, 1988.

(a) Anatomy and Physiology of the Eye; (b) Common Ocular Diseases; (c) Diagnostic and Therapeutic Ocular Techniques. AAHA Technician Program, St. Louis, MO, April 1989.

(a) Glaucoma; (b) Current Concepts in Cataract Surgery. ASVO/AAHA, St. Louis, MO, April 1989.

(a) Corneal Dystrophies; (b) A Clinical Approach to Acquired Blindness; (c) Management of the Blind and Painful Eye; (d) Diseases of the Lens, (e) Management of the Red Eye; (f) Ocular Immunology. AAHA, St. Louis, MO, April 1989.

Primary Intraocular Tumors in Cats. Purdue University, West Lafayette, IN, June 1989.

Etiopathogenesis of Canine Glaucoma. University of Illinois, Champaign-Urbana, IL, July 1989.

(a) Corneal dystrophies; (b) Clinical Approach to Acquired Blindness; (c) Management of the Blind and Painful eye; (d) Management of the Red Eye; (e) Ophthalmic Oncology; (f) Equine Ophthalmology; (g) Veterinary Technician Program. New Mexico VMA, Albuquerque, NM, November 1989.

Intraocular Lens Implantation in Canine Cataract Surgery. Ontario Veterinary College, University of Guelph, Guelph Ontario, Canada, March 1990.

Diseases of the Lens. Southeastern Carolina Vet Med Assn, Fayetteville, NC, March 1990.

Ocular Melanomas. University of Southern Florida, Department of Ophthalmology, Tampa, Florida, March 1990.

Corneal Degeneration and Dystrophies. Eastern Carolina Vet Med Assn, Greenville, NC, April 1990.

(a) Pathology of the Lens; (b) Pathology of Glaucoma. Histologic Basis of Ophthalmic Disease, University of Wisconsin, Madison, WI, June 1990.

(a) Ophthalmic Oncology; (b) Ophthalmology Update. AVMA, San Antonio, TX, July 1990.

(a) Ocular Anatomy and Physiology; (b) Examination of the Eye; (c) Orbital Disease; (d) Diseases of the Lens; (e) Glaucoma; (f) Uveitis. Small Animal Ophthalmology, University of Queensland, Queensland, Australia, October 1990.

(a) Processing of Ocular Tissues; (b) Response of Ocular Tissue to Disease. Veterinary Ophthalmic Pathology, University of Queensland, Queensland, Australia, October 1990.

The Histopathologic Basis of Ocular Disease (a) uvea; (b) lens; (c) glaucoma; (d) vitreous, retina, and optic nerve. Annecy, France, Feb-March, 1991.

(a) Endogenous endophthalmitis due to a filamentous gram positive organism in a dog; (b) Bacterial endophthalmitis following cataract surgery; (c) conjunctival melanocytosis in a dog. SEVOS, Sarasota, FL, April 1991.

(a) Cataracts and diseases of the lens: (b) Management of the red eye. Tidewater Vet Med Assoc, Virginia Beach, VA, May 1991.

(a) Examination of the eye; (b) Congenital anomalies: (c) Inherited and radiation induced cataract: (d) inherited and induced retinal degenerations ILSI, Hanover Germany, October 1991; San Diego, November 1992; Nara, Japan, 1993

Ocular tumors in cats. Peninsula VMA. Newport News, VA, October 1991.

Ocular emergencies. Central Virginia VMA, Richmond VA, October 1991.

Certification schemes for the detection and elimination of inherited ocular disease in purchased dogs. South Australia Kennel Club, May 1992; Siberian Husky Club of Victoria, Melbourne, Australia, May 1992

a) Glaucoma b) Red eye: diagnosis and management. Australian Veterinary Association, Adelaide, Australia, May 1992

Histopathologic basis of ocular disease (lecturer and laboratory instructor). Adelaide, Australia, May 1992.

Histopathologic basis of ocular disease (lecturer and laboratory instructor). Guelph, Ontario, Canada, June 1992.

Lens dislocation in dogs and cats (with W. Neumann). World Small Animal Veterinary Association, Rome, September 1992.

Small animal ophthalmology (lecturer and clinical and surgical demonstrations) Danish Veterinary Ophthalmological Society, Aarhus, Denmark, October 1992.

Histopathology of glaucoma ACVP/ACVO, San Diego, CA. Nov 1992.

Pathobiology of the lens ACVP/ACVO, San Diego, CA. Nov 1992

Intraocular tumors in cats Angell Memorial Hospital, Boston, Mass, January 1993.

History of cataract surgery, intraocular lens implantation, and phacoemulsification, ACVO/ISVO), Scottsdale, AZ, Oct 1993

a) Corneal dystrophies and degenerations; (b) glaucoma; (c) cataracts; (d) ocular tumors in cats, SCVMA, Charleston, SC, January 1994

Histopathologic basis of ocular disease (lecturer and laboratory instructor), ACVO Basic Science Course, Raleigh, NC, July 1994

Laboratory animal ophthalmic toxicology. ACVO Basic Science Course, Raleigh, NC, July 1994

Glaucoma. SFEROV, Cannes, France, October 1994

The ERG, EOG, and VEP in rats. International Society of Ocular Toxicology, Annecy, France, October 1994, (with A Geller and CM Osborne)

Ocular histopathology (course director, lecturer, and laboratory instructor), SCIVAC, Cremona, Italy, November 1994

Phacoemulsification and cataract surgery. SCIVAC, Cremona, Italy, November 1994

(a) Ocular oncology; (b) contemporary concepts in cataract surgery FVO, Luxembourg, June 1995

A problem oriented approach to Small Animal Ophthalmology. Ontario VMA, Ottawa, Canada, February 1996; NC Small Animal Academy, Sanford, NC, December 1997; Virginia Small Animal Academy, Williamsburg, December 1997

Histopathologic basis of ocular disease (lecture and laboratory instructor) Norwegian College of Veterinary Medicine, Oslo, March 1996

What I learned about ocular disease in the pathology lab, AVMA Keynote address, Louisville, KY July 1996

Challenging problems in small animal ophthalmology (with R. Riis), College of Veterinary Medicine, University of Minnesota, 50th Anniversary Celebration, St. Paul, October 1997

Ophthalmology for Veterinary Technicians, Virginia Small Animal Academy, Williamsburg VA, December 1997

Histopathology of common ocular conditions. Virginia VMA, Wintergreen VA, January, 1998; Southeastern Veterinary Conference, Myrtle Beach, SC, June 1998

The role of the Chairperson in an academic department. Atlanta Veterinary College, Charlottetown, PEI, January 1998

Comparative aspects of pigmented ocular tumors, Atlantic Veterinary College, Charlottetown, PEI, January 1998

Glaucoma, Wilmington VMA, Wilmington NC, April 1998

Intraocular Disease , Tidewater VMA, Virginia Beach, VA, April 1998

(a) Pathology of the lens; (b) ocular neoplasm; (c) pathology of the vitreous:

(a) Pathology of the cornea, sclera and conjunctiva; (e) laboratory. ACVO Basic Science Course; Histologic basis of ocular disease, Madison, WI, June 1998. Instructor

Clinical Challenges. Forsyth County Vet Emergency Clinic, Winston Salem, June 1998 (with DE Harling)

(a) Histopathology of glaucoma and (b) intraocular tumors. SFEROV, Paris, October 1998

Small animal Ophthalmology, Virginia Small Animal Academy, Wintergreen, VA, January 1999

Veterinary Medicine into the Millenium, OSU, Stillwater, OK, January 1999

Ocular Toxicology, Glaxo Wellcome, RTP, NC, June 1999

Immune Mediated Ocular Disease, Virginia VMA, Virginia Beach, VA, June 1999

Inherited Ocular Disease in Eyes. Piedmont Collie Club, Sanford, NC July 1999

DLT Smith Visiting Lectureship, Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, Canada (a) Pathogenesis of primary glaucoma and (b) ocular melanomas in three species:dogs, cats, and humans, March 2000

Immune Mediated Ocular Disease, Triangle Veterinary Medical Association, RTP, NC, July 2000

Ocular melanomas, Norwegian College of Veterinary Medicine, Oslo, August 2000

(a) Etiopathogenesis of primary glaucoma in dogs and cats, (b) Histopathology of primary glaucoma, (c) Secondary glaucomas in dogs and cats, (d) Lens and pathogenesis of cataracts, (e) Lens luxations in dogs and cats. Norwegian Society of Veterinary Ophthalmology/Nordic Eye Meeting, Skien, Norway, September 2000

Biomaterials and the Eye, ISOT, Kiawah, SC, October 2000

Ocular Toxicity: Assessment Methods and Mechanisms. Fundamentals of Ocular Toxicity. Society of Toxicology, San Francisco, March 2001

(a) Ophthalmology, (b) Ophthalmology for technicians, NC Academy of Small Animal Medicine Coastal Veterinary Conference, Wrightsville Beach NC, May 2002

Comparative ocular oncology: primary ocular sarcoma in cats. Scientific symposium to honor David E. Eifrig, MD, Chapel Hill NC May 2002

(a) Lens, (b) Glaucoma, laboratory instructor and Course Director, Histologic Basis of Ocular Disease, ACVO Basic Science Course, NCSU, Raleigh NC June 2002

Integrating ocular pathology into toxicology, Society of Toxicology, Salt Lake City, April 2003

Immune-mediated ocular disease, Grand Rounds at Pennsylvania Veterinary Referral Center, Plymouth Meeting, PA April 2004

(a) Ocular inflammation, (b) Lens, (c) Processing of ophthalmic tissues, laboratory instructor and Course Director, Histologic Basis of Ocular Disease, ACVO Basic Science Course, NCSU, Raleigh NC May 2004

Melanocytic Ocular Neoplasia. WSAVA, Rhodes, Greece 2004

Diseases of the Lens of Dogs and Cats,. WSAVA, Rhodes, Greece October 2004

Toxicologic ocular pathology: clinical methodologies and correlates. Society of Toxicologic Pathology, Salt Lake City, June 2004; ISOT, Ft. Worth, October 2004

Diseases of the Lens; Ocular Emergencies: Immune-Mediated Ocular Disease; Glaucoma: Uveal Disease; Corneal Disease; Ocular Manifestations of Systemic Disease; Ocular Neoplasia; Neurophthalmology. Clinical Grand Rounds, Bucks County VETS, 2004-2005

Ocular Anatomy and Physiology, Penn Ophthalmology Review Course, Philadelphia March 2005

Ocular Pathology, laboratory and lectures (course master), SCIVAC/SOVI, Cremona, Italy, April 2005

Anticipated ocular toxicities of locally delivered substrates: functional and morphologic characterization of ocular safety. Ophthalmic Drug Development and Delivery, San Diego CA Sept 2005

Ophthalmic Disorders for Veterinary Technicians, Manor College, Jenkintown PA Oct 2005

Glaucoma and Diseases of the Lens, practitioner seminar, CARES, Langhorne PA, April 2006

Ocular Pharmacokinetics, Otto Hockwin/K. Green Memorial Lecture, ISOT, Koenigswinter, Germany, Sept 2006

Ocular Toxicology and the Pathologist and Toxicologic Pathology: Cornea, European Society of Toxicologic Pathology, La Grande Motte, France Sept 2006

Ocular Pathology, Penn Ophthalmology Review Course, Philadelphia Feb 2007 (with M. Yanoff)

Ocular Diseases of Laboratory Animals, CL Davis Foundation European Branch, Dubrovnik, Croatia Sept 2008

Honors and Awards

Gaines Award for significant contributions to veterinary medicine and surgery, American Animal Hospital Association, 1988

Kenan Award, UNC, 1988 (\$40,000 sabbatical leave support)

Teaching Scholars Program, UNC School of Medicine, 1991 -1993

Membership in Australian College of Veterinary Scientists (Ophthalmology), honorary, 1993

Membership in French Society of Veterinary Ophthalmological Research, honorary, 1994

AVMA-AKC Career Achievement Award for Canine Research, 1996

UNC School of Medicine, Dean's Award for Teaching Excellence, 1999

World Small Animal Veterinary Association/ Waltham Award for Scientific Achievement, 2003