Robert Peiffer, DVM, PhD
Publications

Refereed Journals


1977.


Luetteke NC, Qiu, Peiffer RL, Oliver P, Smithes O, Lee DC: TGF alpha deficiency results in both follicle and eye abnormalities in targeted WA-1 mice. Cell 73:263-78, 1993


Virata S, Kylstra JA, Peiffer RL. The ocular effects of intralenticular iron foreign bodies in rabbits. Ophthalm Surg 26:142-144. 1995


Wong CJ, Peiffer RL, Oglesbee S, Osborne C. Feline ocular epithelial response to growth factors. AJVR 57:1748-1752, 1996


Refereed Journals -- Submitted/In Press:


Peiffer R: Toxicologic Pathology of the Cornea. Exp Tox Path 2007

Non-Refereed Journals


Peiffer RL: Glaucoma in small animal practice II. Acute medical management of glaucoma. Minn Vet 15: 33-34, 1975,


Peiffer RL: Must you do phacoemulsification to be a successful cataract surgeon? Vet Comp Ophthal 5: 126-127

ABSTRACTS:


Munger, RJ, Peiffer RL: Late onset of progressive retinal atrophic cells Invest Ophthalmol Vis Sci (Suppl) 33:1072, 1992


Peiffer RL, Harling DEH. Intravitreal cidofovir (VistideR) in the management of glaucoma in 20 dogs and 5 cats. J Tox 18:248,1999


EDITORIALS:


TEXTBOOK AUTHORSHIPS:


EDITORSHIPS:

Textbooks


Comparative Ophthalmic Pathology, CC Thomas, Springfield, IL 1983.


Ocular Toxicology Proceedings 1994 (Associate Editor), Plenum 1995.

Ocular Tumors in Humans and Animals, Iowa State University Press 2002 (with KB Simons)

Diagnosis and Management of Ocular Disease in Animals: A Primer Text and CD ROM, Butterworth-Heinemann 2003 (with B Grahn and C Cullen)

CONTRIBUTIONS TO TEXTBOOKS:


Geller AM, Osborne CM, Peiffer RL. The ERG, EOG and VEP in rats. Ocular Toxicology Plenum, New York, 7-25, 1995


Peiffer RL, Dillberger JE. Corneal lesions in Beagle dogs given oral 5-ethynyluracil followed by 5 fluororacil. Ocular Toxicology (K. Green et al eds), Plenum, New York, 47-54 1997


BOOK REVIEWS:


PRESENTATIONS:

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


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.


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

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

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

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


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).


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


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


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.


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 presenter). The 41st clinical meeting, residents association of the Wilmer Ophthalmological Institute, Baltimore, MD, April 22, 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 presenter)

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


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


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.


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


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)


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


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


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

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

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 presentor).


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 presentor).

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, presentor)

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


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

Feline ocular melanomas and sarcomas. 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.


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 phacohyphomycosis ASVO/ISVO, San Francisco, CA March 1990

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

Cyclophosphamid 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

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

(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.


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


Familial Erythrophagocytic Histiocytosis. Theobald Society, Arkansas, 1993

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

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 presentor)

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


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


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, Presentor)

Ocular toxicity done to combined systemic administration of 5-fluororuracil (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; presentor)
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 CidofovirR 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, presentor, ACVO, Seattle, October 1998)

Intravitreal cidofovir (VestideR) in the management of glaucoma in the dog and cat (with DE Harling, DE Harling, presentor), ACVO, Seattle, October 1998)

Corneal endothelial agenesis, Hogan-Theobald Society of Ophthamic 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'alleme), ACVO, Chicago, November 1999.

Cataractogenesis in the OXYS strain of rats (with S.Marsili, RL Salganik, DD Albright, MJ Costello, CW Lane, S Marsili presentor), 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 presentor), 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 presenter)

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, presenter)

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

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 presenter)

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 rats, 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).


Funduscopic 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.


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).


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


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).


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 hydroxylapatite 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 oxytetracyline 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 cytoplasms (poster exhibit). ARVO, Ft. Lauderdale, FL. May 1996 (with VL Taylor, KJ Al-Ghoul, LW Lane, and MJ Costello)

Chlorpyrofos (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)


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


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


I-vationTM 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


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


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


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


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


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

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


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


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


(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.


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.


(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.


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

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


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.


(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.


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.

(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.


(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

(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, Instituto Scientifisco pur 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.


(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.


(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.


(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) 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


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


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


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


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


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


(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

Toxocologic ocular pathology: clinical methodologies and correlates. Society of Toxocologic 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; Neuroophthalmology. 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 Toxocologic Pathology: Cornea, European Society of Toxocologic 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