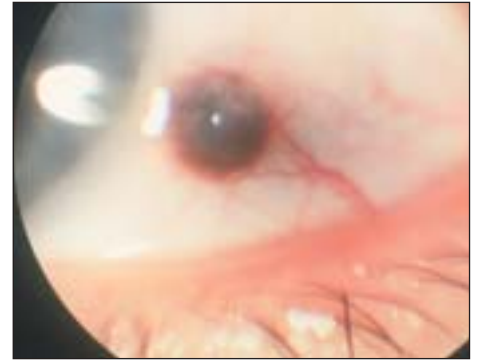


# Ann E. Barker-Griffith, M.D.

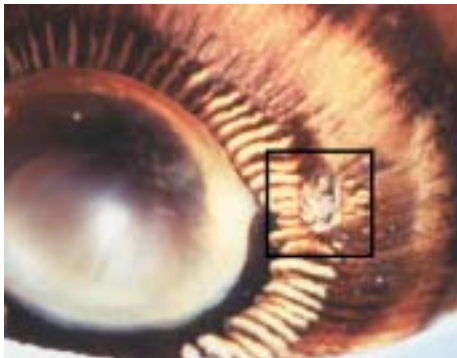
## Ocular Trauma and Disease

Foreign bodies entering the eye cause considerable pain and may interfere with eye function. In fact, eye trauma is the leading cause of monocular blindness in children and young adults. Understanding how ocular trauma and ocular surface disease affect the eye at the molecular level is the focus of Dr. Ann Barker-Griffith's research. A board-certified ophthalmologist, Dr. Barker-Griffith uses electron microscopy to

observe the ultrastructure of elastic tissue in eyes with ocular surface diseases. At Upstate Medical University she collaborates with Dr. Barbara Streeten, Dr. Jerrold Abraham, an expert in electron microscopy-energy dispersion x-ray analysis; and Dr. Andras Perl, a rheumatologist researcher. She has also been active in educating people about dangerous "toys" such as the potato gun.



*This pigmented episcleral nodule was thought to be a melanoma extending outside the eye from the ciliary body. The patient's vision was poor since childhood, the result of a BB gun injury.*



*Interior of enucleated eye shows rusty colored tissues (siderosis oculi), cataract, and a metallic foreign body surrounded by scar tissue (boxed area).*

*"Proliferation of ocular injuries is a strong stimulus for me to specifically identify the different materials involved in these injuries and to alert people about ways to protect their eyes from dangerous 'toys' ranging from potato guns to fireworks."*

Dr. Barker-Griffith's research is supported by Research to Prevent Blindness, Lions District 20-Y1, and Lions International. She has collaborated with scientists at Harvard University, New York University, SUNY Buffalo, and The Johns Hopkins University. Her work is published in *Canadian Journal of Ophthalmology*, *Ophthalmology*, *Archives of Ophthalmology*, and *Archives of Pathology*. She reviews manuscripts for *Archives of Ophthalmology*, *Ophthalmology*, and *Ophthalmic Practice*. She is co-authoring a chapter with Dr. Barbara Streeten on the ciliary body in *Duane's Foundations of Clinical Ophthalmology*, Tasman W., and Jaeger, EA, eds. She has received invitations to speak about her work at numerous institutions.

Dr. Barker-Griffith participated in a recertification field trial for the American Board of Ophthalmology. She is a member or fellow of the American Academy of Ophthalmology, Association for Research in Vision and Ophthalmology, Eastern Ophthalmic Pathology Society, The Verhoeff-Zimmerman Eye Pathology Society, Royal College of Surgeons of Canada, International Society of Aquatic Medicine, and American Association of Ophthalmic Pathologists. She serves on the Board of the latter two societies. She founded and directed the Southern Saskatchewan Low Vision Center, Canadian National Institute for the Blind. She also received the Award for Excellence in Neurology at graduation from Woman's Medical College of Pennsylvania, now known as Drexel University College of Medicine.

