The three main areas of responsibility for a major public university are teaching, research and service. The School is excelling in all three of these areas as you will see from the material in this annual report.

Our main responsibility is to educate the future eye care practitioners. In addition to our excellent faculty who teach the didactic courses, we have an outstanding clinical education program. We now have five School clinics as well as over 50 external rotation sites in which our students gain experience working with the full range of patient experiences. They have the opportunity to examine infants, the elderly, the physically handicapped, the mentally ill, the homeless, patients of diverse cultures, the incarcerated, the visually handicapped and the poor-as well as the "average" patient. Our clinics in Bloomington provide care to the university community and the general public. The Indianapolis Eye Care Center provides care to state employees, politicians, the indigent (through many health centers), homeless shelters, hospitals and other settings and the general public. The IU Eye at Carmel clinic is a multidisciplinary setting allowing direct interaction with other medical professions. Our Mexico clinic gives some of our students the opportunity to see a different clinical population, but just as important, to experience a different culture and to learn to give an eye exam in Spanish. These opportunities along with those at many referral centers, eye hospitals, Veteran's Hospitals, military bases and other rotation sites give our students the best optometric clinic education in the world. This experience not only gives them the technical, professional and personal skills but hopefully also instills in them the need and importance of caring for the less fortunate.

We have been very fortunate to have added several new faculty. Dr. Tiffinie Harris, an IU graduate of 1993, joined us full time this past academic year and has been a tremendous addition to our clinical faculty. In her first year she received the consultant of the year award from the third year class. She has over 10 years experience in several practice settings in the Detroit area. Dr. Sean Knaak, an IU grad of 2003, joined the faculty to provide low vision services at IECC and IU Eye at Carmel after completing a residency in low vision at the Kansas City VA Hospital. Drs. Steve Burns and Ann Elsner, a husband and wife team from the Schepens Eye Research Institute in Boston, arrive this summer. They are two senior faculty with tremendous international reputations in ocular imaging, ocular aberrations, AMD and diabetes. Dr. Nicholas Port is a neuroscientist working in the area of eye movements and associated neurological processes who came to us from the National Eye Institute. Dr. Bill Swanson, from the SUNY College of Optometry, has agreed to join us in the spring of 2006. He is a senior faculty member with expertise in glaucoma and visual fields. He has also worked in the areas of glaucoma, amblyopia, retinitis pigmentosa, macular degeneration and color defects. The addition of these individuals to our already outstanding faculty makes us one of the top vision education and research centers in the country.

The need for eye care in the Guanajuato region of Mexico is tremendous. Our VOSH chapter and our year around clinic there are providing excellent care. However, more services are needed. The Department of Infants and Family
has been impressed with the care we provide and have raised approximately one million dollars from governmental and private funds to build a new, much larger facility for our eye clinic. Not only will it have additional exam rooms, an ophthalmic fabrication lab and the necessary other auxiliary rooms, but it will also have a surgical suite which will allow ophthalmologists to perform cataract surgeries for the many who are blind from this preventable condition as well as other surgical procedures. There is more on the clinic later in the report.

The School continues to help the Ramkhamhaeng University in Bangkok, Thailand, develop the first optometry school in their country. They are in their fourth year and the graduates of this program will provide much needed vision care to the citizens of Thailand. This is an example of our service that will have far reaching consequences for many years to come. I certainly thank all of the faculty who have donated their time and talents to help this program.

Through the Eye Care Community Outreach Program (ECCO) our faculty and staff, along with many others are providing organization of vision care services, vision education and direct patient care to many needy patients in the Indianapolis area. I am sure you will be impressed with what they have done when you read their report in the following pages.

I hope you find this annual report interesting and informative. We always look forward to any comments you have and invite you to visit the School or any of our clinics any time you have a chance.
Vision is an asset that many take for granted, yet, without it, individuals may face numerous barriers to being self-sufficient. So much learning is accomplished through vision that it is vital that every individual have access to vision health care services. The National Eye Institute states that "half of all blindness can be prevented and the number of people in America who suffer vision loss will continue to increase" (Vision Problems in the US, 2002). Contrary to public perception, many low-income people, especially adults, cannot qualify for health insurance through safety net programs like Medicaid and therefore cannot access proper vision services.

According to Kaiser Family Network (2003), nearly 800,000 individuals in Indiana are living without health insurance. Uninsured people include children, young adults, middle-aged adults, and people nearing or at retirement—-with the largest number of uninsured being those aged 19-49. Making vision care accessible and affordable for low-income, uninsured individuals has become a challenge to communities nationwide. As a response to this growing problem, the IU School of Optometry and the IU School of Medicine, Department of Ophthalmology have been national leaders in forming the Eye Care Community Outreach (ECCO) program to address this issue locally with generous seed funding from the Nina Mason Pulliam Charitable Trust. A collaborative funding effort to continue the program's mission has been formed with generous support from the Indianapolis Foundation, a CICF affiliate, the Marion County Health Department and the Anthem Foundation.

ECCO seeks to address many gaps in the current health-care system in the Indianapolis community. A 2002 study done by the Hudson Institute found that there were 98,000 citizens in Indianapolis who did not have health insurance. It also substantiated the claim that those same people do not usually qualify for Medicaid or Medicare and are often employed in low-paying jobs that do not offer health benefits.

ECCO began servicing Marion County and the seven surrounding counties on April 26, 2004. The program's primary goals are to:
1. Provide easier access and reduce barriers to receiving vision care for medically underserved, low-income and uninsured individuals and families by coordinating resources of community organizations.
2. Raise public awareness on the importance of vision health for children and adults.
3. Assist those receiving vision care with any additional medical or social services when needed.
4. Reduce blindness and visual impairments in children and adults.

In partnership with many local health and social services agencies, ECCO has managed to create a sustainable, cost-efficient solution to filling gaps in vision healthcare. Once the patient is referred into ECCO, they are assessed for eligibility and connected with other resources and health care programs in the community, avenues of help often unknown to the patient. If the patient does not qualify for any other program, he/she is connected with a local eye care professional who has agreed to donate services to the ECCO program. In its first five months of operation, ECCO exceeded expectations by providing nearly 300 uninsured, low-income individuals with generously donated eye care from local eye care professionals. Success has been achieved through collaborating and coordinating efforts with area agencies in order to reduce barriers to vision care access.

ECCO is a unique program in which the patient is viewed as a central part of the system of care, in need of inclusion, rather than merely a band-aid approach to healthcare. In addition, ECCO addresses patient's other medical and social service needs. Those without a primary care physician are connected with community health clinics in order to decrease use of the emergency room for primary health care.
Dewana Allen has worked as one of the two ECCO program coordinators for the past year to implement this new program that seeks to improve the vision health care of Marion County and the seven surrounding counties. Her main focus is the coordination of vision resources on behalf of indigent individuals in these counties. As part of her duties, Dewana encourages collaboration between community organizations, improves access to vision care services for the uninsured, and participates in numerous health screenings around Indianapolis.

Dewana received her Master of Public Health (MPH) in 2002 and her B.S. in 1998 from Indiana University-Bloomington. She has applied her education by working in the non-profit sector for over 7 years with a focus on community health in culturally diverse, underserved areas. She has served on many committees such as Indiana State Department of Health (ISDH) Minority health advisory committee, ISDH Careforce planning committee, Indianapolis Minority Health Take a Loved One to The Doctor Day committee, and the JTV Youth Center Planning Council as Council elected Secretary. She has also completed trainings in cultural diversity, advanced cultural diversity leadership development, and chronic disease education. In addition, Dewana has performed evaluations for the ISDH SPSP HIV program, Citizens FACT Program and the Wishard Healthy Start program.

Kelli Barker is a program coordinator for the Eye Care Community Outreach (ECCO) program, serving as the liaison for the IU School of Medicine, Department of Ophthalmology. She and Dewana work to further develop the ECCO program in addition to coordinating the vision care of low-income, underinsured patients in Central Indiana with the donated services of local eye care professionals.

Kelli received her B.A. in Journalism from IU-Bloomington in 2000 and a Master of Social Work and a Certificate in Nonprofit Management from The University of North Carolina at Chapel Hill in 2004. After graduating from IU, she completed a year working in Phoenix, Arizona, at a homeless shelter developing a temporary employment program assisting homeless individuals transition back into the workforce. She also has experience working in a Women's Center as a financial and housing counselor, and working for The Arc, an advocacy organization for people with developmental disabilities. She has recently completed training in teaching English as a Second Language, cultural competency, and an intensive language immersion in Guatemala. Kelly continues to take Spanish, which she uses frequently in her currenty capacity.

ECCO has been overwhelmingly welcomed into the community during its beginning stages by both potential collaborators and patients. Many of these patients who have felt excluded from accessing adequate vision care in the past have now been able to improve their independence and quality of life. In addition, ECCO provides community education in schools and senior centers to raise awareness of the importance of visual health and annual eye exams.

Through building partnerships with area agencies, ECCO has created a program localized to the needs of the Indianapolis community that seeks to provide more than just vision care, but to assist in connecting people with larger systems and resources they never knew were available. With this program, a brighter outlook for the uninsured is in sight. For more information see http://www.opt.indiana.edu/ecco/.

ECCO Program Successes and benefits to the Community Fiscal Year 2004-2005

Collaborated with 72 community organizations
Referred 686 individuals to existing community resources
Coordinated 630 donated or discounted eye exams and 38 ophthalmic surgeries.
Participated in 23 health fairs and vision screenings
Provided vision screenings to 2,528 people in Central Indiana and distributed visual health information to over 1,388 people.
Organized annual Focus on Diabetes Day event giving free eye exams, glasses, glucometers, test strips, flu shots and information to individuals with diabetes referred from local community clinics.
Recruited 18 Optometrists and 15 Ophthalmologists to donate their services to ECCO patients
Secured the donation of over 297 pairs of spectacle lenses and frames
Helped 91 children, ages 19 and under, receive vision services
Assisted diverse populations:
33% Caucasian, 31% African American, 30% Hispanic, 2% Asian, 2% Native American
95% of people helped by ECCO are from low-income (at or below 200% of federal poverty level) households, uninsured or underinsured
Ajamian, Paul C.
Omni Eye Service, Atlanta, GA

Alexander, Larry
John Kenyon Eye Center, Jeffersonville, IN

Atkin, Sharon R.
VAMC, Perry Point, MD

Atkinson, Greg
Ireland Army Community Hospital, Ft. Knox, KY

Dankovich, Michael A.
Eye Associates of Southern Indiana, Jeffersonville, IN

DenBeste, Brian P.
The Eye Foundation, Orlando, FL

Doyle, Andrew
Perry Point VAMC, MD

Egenmaier, Walter H.
EyeCare Consultants, Evansville, IN

Banta, Aaron
Lackland AFB, TX

Bergman, Christopher T.
Omaha Eye Institute, Omaha, NE

Bigelow, Mary A.
Wright-Patterson AFB, Dayton, OH

Boerman, Helen
Wang Vision, Nashville, TN

Bogaard, Michael
Offutt AFB, NE

Bosin, Talmage R.
IU Department of Medical Sciences, Bloomington, IN

Boyer, Stephen R.
Danville VAMC, Danville, IL

Brown, Cynthia
Clay City Center for Family Medicine, Clay City, IN

Campbell, Marcia Jo
Bloomington Hospital, Bloomington, IN

Carter, Randy B.
The Eye Institute of Utah, Salt Lake City, UT

Caudill, Cliff
UK, Dept. of Ophthalmology, Lexington, KY

Chalmers, Robin L.
Atlanta, GA

Chapman, James C.
Lackland AFB, TX

Chiarelli, Catherine Ann
Vision Institute of Canada, North York, Ontario

Cordes, Matthew G.
Huntington VA Medical Center, Huntington, WV

Ch Kele, Sarah
Huntington VA Medical Center, Huntington, WV

Crane, Tracy
Tsaile Health Center, Tsaile, AZ

Crutchfield, Barbara
UK, Dept. of Ophthalmology, Lexington, KY

Dankovich, Michael A.
Eye Associates of Southern Indiana, Jeffersonville, IN

Frederickson, Gary
Keesler Air Force Base, Keesler, MS

Gabriele, Philip
Gabriele Eye Institute, Mishawaka, IN

Gay, Dax Alan
Illiana Healthcare System, Danville, IL

Gettlefinger, Michael W.
Family Health Center of Clark County, Jeffersonville, IN

Goen, T. Michael
Pensacola VAMC, Pensacola, FL

Graf, Frank
NE Medical Center, Dept. of Ophthalmology, Omaha, NE

Gunn, Melinda
Family Health Center of Clark Co., Jeffersonville, IN

Harmon, Eric M.
Patoka Family Health Care Center, English, IN

Harmon, James
Patoka Family Health Care Center, English, IN

Hedde, Geoffrey A.
Family Eye Care, Ridgefield, CT

Hewely, Vonda
Family Health Center of Clark Co., Jeffersonville, IN

Hohendorf, Robert A.
South Kent Vision Center, P.C., Grand Rapids, MI

Holbrook, Steven E.
The Eye Center of Southern Indiana, Bloomington, IN

Huck, Chad
Eye Center of Southern Indiana, Bloomington, IN

Hung, Michael
Omni Eye Services of Atlanta, Atlanta, GA

Huseman, Sarah A.
Eye Surgeons of Indiana, Indianapolis, IN

Huskins, Arnold M.
Keesler Air Force Base, Keesler, MS

Johnston, Robert L.
Eye Specialists of Indiana, Indianapolis/Franklin, IN
Jordan, Curtis Allen  
Eye Associates of Southern Indiana, Jeffersonville, IN

Jung, Jean  
VA Hudson Valley Health Center, Montrose, NY

Kinnaird, Charles W.  
Westside VAMC, Chicago, IL

Kiracofe, Greg  
VAMC, Dayton, OH

Kraff, Colman  
Kraff Eye Institute, Chicago, IL

Kraff, Manus  
Kraff Eye Institute, Chicago, IL

Mangan, Richard B.  
Eye Surgeons of Marion, Marion, IN

Maynard, Kirk C.  
Offutt AFB, NE

McGuire III, John  
Quantico Naval Medical Clinic, Quantico, VA

McSolely, John  
Bascom Palmer Eye Institute, Miami, FL

Melton, Ron  
Charlotte Eye-Ear-Nose-Throat Associates, Charlotte, NC

Middendorp, Lorayne  
Ireland Army Hospital, Ft. Knox, KY

Moyle, Wendy  
N. Indiana Health Care System VAMC, Ft. Wayne, IN

Noblitt, Randall  
John Kenyon Eye Center, Louisville, KY

Nolan, Ronald R.  
Family Health Center of Clark County, Jeffersonville, IN

O'Neill, Patrick W.  
Northfield Eye Center, Northfield, MN

Osmandki, Joseph  
Ireland Army Hospital, Fort Knox, KY

Peltzer, Bradley A.  
Aran Eye Associates, N. Miami, FL

Peplinski, Lee S.  
Bennett-Bloom Eye Center, Louisville, KY

Petkovich, Steve T.  
Roudebush VA Medical Center, Indianapolis, IN

Pietrzyk, Jeffrey M.  
Bennett & Bloom Eye Center, Louisville, KY

Pruitt, Stacy  
Gabriele Eye Institute, Mishawaka, IN

Risch, Judy D.  
Richmond Eye Institute, Richmond, IN

Salituro, Sam M.  
Wesley-Jessen Corp., Des Plaines, IL

Schamroth, Sara L.  
N. Indiana Health Care System VAMC, Ft. Wayne, IN

Schroeder-Swartz, Tracy  
Wang Vision, Nashville, TN

Shelton, Briana  
Huntington VAMC, Huntington, WV

Siebert, Donald A.  
Huntington VAMC, Huntington, WV

Sloan, David  
Kirkpatrick Eye Care, Madison, IN

Stahlman, Bonnie  
Naval Air Station, Patuxent River, MD

Stewart, James B.  
Muncie Eye Center, Muncie, IN

Terry, Jack E.  
Huntington VAMC, Huntington, WV

VanCleve, Stephan A.  
EyeCare Consultants, Evansville, IN

Vandervort, Robert  
Omaha Eye and Laser Institute, Omaha, NE

Watkins III, John B.  
IU School of Medicine, Dept of Ophthalmology, Indianapolis, IN

Wilson, Steven M.  
American Eye Institute, New Albany, IN
Dr. Carolyn Begley  
**Published**  

**Accepted**  

Dr. Joseph Bonanno  
**Published**  


**Accepted**  
Tan-Allen KY, Sun XC, Bonanno JA. Characterization of Adenosine Receptors in Bovine Corneal Endothelium. Experimental Eye Research


Dr. Arthur Bradley  
**Published**  


Thibos LN, Hong X, Bradley A, Applegate RA. Accuracy and precision of methods to predict the results of subjective refraction from monochromatic wavefront aberration maps. J Vision 4:329-51


Bradley A. Color Filters and Vision Care: Part II. Indiana Journal of Optometry, 7,1-6

Thibos LN, Bradley A. Chromatic Aberration and its impact on vision. Wavefront Customized Visual Correction.

Thibos LN, Bradley A. Variation in ocular aberrations over seconds, minutes, hours, days, months and years. Wavefront Customized Visual Correction

Thibos LN, Bradley A, Applegate RA. Where is the far-point of an aberrated eye? 2003, MOPA conference proceedings


**Accepted**  

Kollbaum PS, Bradley A. Aspheric Contact Lenses: Fact and Fiction. Contact Lens Spectrum. (in press)

**Submitted**  
Himebaugh NL, Bradley A, Begley CG, Thibos LN. Effects of Tear Film Break-Up on Optical Aberrations and Light Scatter in the Human Eye. IOVS (under revision, 2004) Thibos LN, Bradley A, Applegate RA. System and method for optimizing clinical optic prescriptions. (patent submission)

Dr. Clifford Brooks  
**Accepted**  

Dr. T. Rowan Candy  
**Published**  

**Accepted**  
50 page chapter entitled 'The development of the visual system' for a textbook for optometry students. Chapter has been submitted and book will be called 'Visual Development, Diagnosis, and Treatment of the Pediatric Patient'. Book being edited by Dr. Robert Duckman


**Submitted**  
Wang J, Candy TR. The higher-order monochromatic
aberrations of the human infant eye. Journal of Vision

Dr. David Goss
Published

(invited)(had a 2003 publication date, appeared in 2004)

Penisten DK, Goss DA, Philpott G, Pham A, West RW. Comparisons of dynamic retinoscopy measurements with a print card, a video display terminal, and a PRIO System Tester as test targets. Optom 2004;7(4):231-240


Goss DA, Pietsch PA, Gerstman DR, Meetz RE. An overview of pivotal events and significant changes in the Indiana University School of Optometry from the 1970s to the present. Indiana Journal of Optometry, 2004;7(2):22-31


Goss DA. History of binocular vision and vision therapy services and curriculum at the Indiana University School of Optometry. Indiana Journal of Optometry 2004;7(2):48-57


Ngan J, Goss DA, DeSpirito J. Comparison of fixation disparity curve parameters obtained with the Wesson and Saladin fixation disparity cards. Optom Vis Sci 2005;82(1): in press

Goss DA. Development of the ametropias. In: Benjamin WJ, ed. Borish’s Clinical Refraction, 2nd ed. in press

Submitted

Goss DA. Association of asthenopic symptoms with phoria, fusional vergence, and fixation disparity variables.

Groppel P, Dominguez L, Goss DA. Comparison of MEM retinoscopy, Not retinoscopy, and Canon autorefractor measures of accommodative response and their interexaminer repeatabilities.

Dr. Gary Hafner
Submitted/In Preparation

Srinivas SP, Goon L, Goon LH, Mutharasan R, Hafner G, Yue BYJT. Cultured trabecular meshwork cells express P2Y purinergic receptors and release ATP in response to shear stress. (in preparation)

Dr. Patricia Henderson
Published


Dr. Elli Kollbaum
Published

Farnsworth S, Kollbaum E. "Giant Intracranial Aneurysm Revealed During Routine Follow Up for Pigmentary Dispersion Syndrome." Poster for AAO Meeting, 12/04

Dr. Susan Kovacich
Published


Dr. Don W. Lyon
Published

The Pediatric Eye Disease Investigator Group. Risk of amblyopia recurrence after cessation of treatment. Journal of American Association for Pediatric
Ophthalmology and Strabismus 2004;8(5):420-428


Journal Correspondence


Dr. Victor Malinovsky

Published


Submitted

Harrison WA, Viswanathan S, Malinovsky V. Inner-retinal contributions to the multifocal pattern electroretinogram and its clinical implications. Investigative Ophthalmology and Visual Science

Dr. Edwin Marshall

Published

Marshall EC. (Monograph Interview) Creating a successful glaucoma practice. Primary Care Optometry News, April, 2004

Submitted


Dr. Richard E. Meetz

Published


Dr. Donald Miller

Published


Submitted

Kim J, Kim E, Oh S, Oh J, Miller DT, Milner TE. "OCT speckle reduction by a partially spatial coherent source." Journal of Biomedical Optics


Dr. Neil Pence

Published

Pence NA, VanNasdale D. "Management of Lid Disease". Optometric Management, 2/2004


Dr. Sarita Soni

Published


Eislet T, Horton D, Nguyen TT, Soni PS. Rate of change in corneal curvature refractive error and visual acuity with Paragon CRT lenses. Optometry and Vision Science, 2004; 81(12s):p71


Submitted


Kamei Y, Casser K, Shen J, Soni PS. Short-term corneal

**Dr. S. P. Srinivas**

*Published*


*Accepted*


*Submitted*


**Dr. Brad Sutton**

*Published*


Sutton BR. "Risk of Amblyopia Recurrence After Cessation of Treatment". Journal of AAPOS 8 (5); October, 2004: 520-528

Sutton BR. "Ocular Toxocariasis: A Representative Case Report and Review". Indiana Journal of Optometry 7(1), Spring, 2004:9-12

Sutton BR. "Is Laser Vision Correction Right for You". Expert in VSP's Eye on Health article

**Dr. Larry Thibos**

*Published*


Thibos LN, Hong X, Bradley A, Applegate RA. Accuracy and precision of methods to predict the results of subjective refraction from monochromatic wavefront aberration maps. J Vision 4:329-51

Cheng X, Bradley A, Thibos LN. Predicting subjective

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**2004 Residents**

Postgraduate residency training is a popular means for OD’s to further their optometric education by allowing them to concentrate in a selected specialty area and more quickly gain expertise in that area. The Indiana University School of Optometry residencies specialize in the areas of cornea and contact lens, pediatrics, ocular disease, primary care and refractive and ocular surgery. Three of the residencies are located at the School’s Optometry Clinics and the residents for these three sites were Drs. Kim Kohn, Danielle Warren and Kevin Cassar.

Kim Kohne attended IU for her undergraduate studies and after working at Sigma Chemical and Genome Systems in St. Louis, went to Optometry school at the University of Missouri-St. Louis College of Optometry. She then came back to IU for an Ocular Disease Residency. At the end of her residency not only did she give birth to a son, but also interviewed and accepted a clinical associate professorship at the IU School of Optometry.

Danielle Warren is from Grand Rapids MI, attended the Illinois College of Optometry and since she always wanted to teach, the best career path seemed to do a residency. She was the BV Peds Resident and said she loved the experience even though “it was hard work and many times I felt only a few steps ahead of the students.” She is continuing her education with the pursuit of a PhD in Visual Optics at IU, hoping to graduate in about 4 years.

Kevin Cassar, the contact lens resident, hails from Davisburg, MI and attended Michigan State for undergraduate studies. Before attending the Illinois College of Optometry, Kevin worked at Abbott Laboratories. He said his residency experience was great and that he enjoyed every day of coming to the clinic. He said he “chose the residency because he wanted to be a more seasoned practitioner before starting out on his own,” something he said was accomplished. He also credits the residency with his post-residency job. Kevin traveled several hours in a car to conduct a contact lens seminar with another optometrist from Athens, Ohio. After the weekend the optometrist (Dr. Tom Quinn) called and offered him a job. Kevin said that he didn’t even know he was being interviewed, but is moving there at the end of August!

Drs. Cassar, Warren, and Kohne
judgment of best focus with objective image quality metrics. J Vision 4:310-21
Anderson RS, Thibos LN. The filtered Fourier difference spectrum predicts psychophysical letter discrimination in the peripheral retina. Spat Vis, 17(1-2);5-15
Thibos LN. Unresolved issues in the prediction of subjective refraction from wavefront aberration maps. J Refract Surg, 20(5), S533-536
Pseudovs K, Marsack JD, Donnelly WJ3rd, Thibos LN, Applegate RA. Measuring visual acuity-mesopic or photopic conditions and high or low contract letters? J Refract Surg, 20(5), S508-514
Thibos LN, Applegate RA. Assessment of optical quality.

Stacy Hufnagel Receives National Recognition
Optometry students across the country submitted case studies in hopes of winning the annual Varilux® Student Grant Award from Essilor of America. This year, the winner was Stacy Hufnagel, a third year IU optometry student, who wrote the winning case study, "Application of Varilux® Ellipse™ in a Young Unilateral Pseudophake." Judges reviewed all case studies based on criteria such as dispensing skills, application of Varilux lenses to the patient's needs, analysis of the care and analysis of the lens design and lens performance. Stacy's faculty advisor on the case report was Dr. Patricia Henderson. Congratulations to both Stacy and Dr. Henderson!

"It is rewarding to know that students are learning about the applications and advancements that Varilux lenses offer patients," said Rodney Tahran, Vice President of professional relations and clinical affairs for Essilor. "Essilor has always been dedicated to empowering students studying Optometry. We know that supporting the educational process helps to prepare students to become the industry leaders of tomorrow."

Stacy received an all-expenses paid trip to the 108th Annual American Optometric Association (AOA) Congress and 35th Annual American Optometric Student Association (AOSA) held at Grapevine, Texas, in June 2005. Hufnagel was also honored at the 14th Annual Varilux Optometry Super Bowl, a highly anticipated annual event sponsored by Essilor.

Wavefront Customized Visual Correction: The Quest for Super Vision II (pp.55-63)
Williams DR, Applegate RA, Thibos LN. Metrics to predict the subjective impact of the eye's wave aberration. Wavefront Customized Visual Correction: The Quest for Super Vision. (pp. 77-84)
Thibos LN, Bradley A. Variation in ocular aberrations over seconds, minutes, hours, days, months, and years. Wavefront Customized Visual Correction: The Quest for Super Vision. (pp 109-113).
Accepted
Miller DT, Thibos LN, Hong X. Requirements for segmented correctors for diffraction-limited performance in the human eye. Optics Express (in press)
Chui T, Yap M, Chan H, Thibos LN. Retinal stretching limits peripheral visual acuity in myopia. Vision Res. (in press)
Patton Submitted

Dr. Suresh Viswanathan
Published
Viswanathan S, VanDerPloeg BJ, Srinivas SP. Action potential contributions to the scotopic oscillatory potentials of rat electroretinogram. 2004 Annual Meeting of the Association for Research in Vision and Ophthalmology
Harrison WA, Viswanathan S. Inner-retinal contributions to the multifocal pattern electroretinogram. 2004 Annual Meeting of the Association for Research in Vision and Ophthalmology
Simpson MC, Viswanathan S. Uniform field and pattern electroretinogram to equivalent stimuli. 2004 Annual Meeting of the American Academy of Optometry
Viswanathan S. Frequency analysis of the primate fast multifocal flash electroretinogram (mERG). 2004 Annual Meeting of the American Academy of Optometry
Viswanathan S, VanDerPloeg BJ, Srinivas SP. Action potential contributions to the scotopic oscillatory potentials of rat electroretinogram. 2004 Annual Meeting of the Association for Research in Vision and Ophthalmology
Harrison WA, Viswanathan S, Malinovsky V. Multifocal pattern electroretinogram (mPERG) in glaucoma - a pilot study. 2004 Annual Meeting of the American Academy of Optometry
Submitted
The Optometry Office of Budgetary Planning and Administration handles the finances and facilities for the School, which may or may not include anything and everything from setting and managing the School's budget to leaking distillers flooding the library.

Before 1982, all the purchasing and managing of accounts was done by the Dean's office. In 1982, the job had expanded so much that Dr. Dan Gerstman, Assistant to the Dean, took over managing the School's business affairs. In 1984, he became the Associate Dean for Budgetary and Fiscal Affairs and 1995 became the Executive Associate Dean for Budgetary Planning and Administration to better represent the duties of the office he managed.

Through the years, Dr. Gerstman has built relationships with the ophthalmic industry leaders in order to furnish the school's 75 or more examination rooms with ever changing state of the art technology. He has negotiated many gifts of cash, gifts-in-kind, discounts, two-for-one purchases, and loaner programs to make this possible. He also teaches V111 Basic Optics, V131 Ophthalmic Optics, V521 and V522 Geometric Optics I and II as well as managing the School's budgets and has won the "Professor of the Year" numerous times.

In the fall of 1982, Cindy Lepore joined the Budget Office as a "Principle Account and Computer Clerk" to do purchasing and also to implement the first computerized clinical business system. Cindy had been an 8th grade Math teacher at the Brown County Junior High School before coming to the School. She remembers using an adding machine and typewriter to do all the work in those days before using an IBM computer without a mouse or hard drive, but with 2 floppy disk drives- one disk had the program on it and the other stored the data. Lotus 1-2-3 revolutionized the way work was done. After serving as the School's Business Manager for almost a decade, an IU policy revision created the fiscal officer positions in all the Schools, and in 2003 she became the School's Fiscal Officer. She has worked under all the Deans (Dr. Henry Hofstetter was the first Director of the Department of Optometry and therefore not a dean) but she says "I am still not the senior staff employee in Optometry."

Craig Combs started at the School of Optometry part time in 1994 while finishing a Master of Health Administration and became a full-time employee in December 1994- which was about the time that IU implemented an e-mail system. Everyone's jobs have changed in the office through the years, but due to managing the production of a new publication in the Spring of 1998, things changed a lot for him. The School started publishing an Annual Report and the outside person hired to produce it became pregnant and very sick. He says "I had to finish the 46 page magazine using software I had never seen before and that wasn't very intuitive." The next year he did it himself to save the School money and now he does the production of the School's printed documents. He also manages the grant accounts and does many monthly reports for Cindy and Dr. Gerstman and also acts as a liaison with the clinic business offices.

Prior to coming to the School of Optometry, Lyn Bryan had her own wholesale ice cream manufacturing business, supplying most restaurants in Brown County with her homemade ice cream. In 2001, Lyn sold her business and began working in Student Administration. Not too long after working here, an opportunity came up for Lyn to work closer to home as office manager for a new Lilly funded endeavor, the Career Resource Center. Because she still had one child in high school, she left IU and went back to Brown County, knowing that a grant funded position is not a permanent one. As her daughter neared graduation, she began to look for employment back at IU, specifically the School of Optometry. In November 2003, Lyn returned to the School to work in the Budget Office. She is in charge of all the building issues- including remodeling and the repair of the School's space. She also manages and analyzes clinic and school financial data all while acting as an Administrative Assistant to Dr. Gerstman. She says the best thing about the job is the variety. "It's nice to have the benefits and opportunities of working at Indiana University, but to feel like you're a part of a small school family."

Mrs. Ritsuko Noda came to Bloomington in 1981 when her husband Dr. Hiroharu Noda moved from the UCLA Department of Anatomy and Brain Research Institute to the IU School of Optometry. She worked as an RN in California before moving to Indiana. Upon arrival here, she worked in Dr. Noda's lab as a volunteer helping set up the lab and assisting the Japanese scientists who came early-on to work in the lab. In 1989 she became "Research Assistant" for the School and worked in Dr. Noda's lab-carrying on his research with Dr. Sato after her husband became ill with cancer. She also worked in the Borish Center for Ophthalmic Research and Optometry Student Administration before coming to the Budget Office in 1995, where she is in charge of the frame inventories for the four optometry eye wear centers.

A 2005 addition to the staff is Emily Scales, a 2004 IU graduate with a BA in Elementary Education. Emily also taught math for one year at Batchelor Middle School in Bloomington. Emily has taken over all the purchasing duties from the rest of the staff and consolidated it into one centralized duty, making it easier on the Optometry staff as well as the Budget Office staff. She arrived just in time to learn all the new IU Purchasing software and teach the rest of the Budget Office how it works. To pursue an interest in business, she is also getting a Business Foundation Certificate from the Kelley School of Business while working full-time.

For the last four years, Jamie Kakuk has worked in the Budget Office while pursuing a BS in Finance and Accounting and MBAA at the Kelley School of Business. She has one more year of schooling and hopefully will continue to help with various projects in the office.
The IU School of Optometry is rapidly becoming a center of excellence in the field of ophthalmic imaging. The School supports a diverse array of laboratory, patient-based, and industrial research with a common theme of using light to probe mechanisms of vision, the eye, and ocular disease. Our ultimate goals are to improve understanding of the health and function of the eye and related structures that enable humans to capture and process light, and to improve vision and healthcare for the general population. The School, including its Graduate Program in Vision Science, public clinics, and Borish Center for Ophthalmic Research, provides a unique opportunity to take novel ideas all the way from scientific ideas to clinical trials to primary care. Many exciting projects described below represent the confluence of advanced instrumentation, scientific rigor, and clinical expertise that are expanding the School’s international reputation for excellence.

Clinical imaging with optical coherence tomography (OCT)

The Sratus OCT (Carl Zeiss Meditech) is an ophthalmic imaging device with a myriad of clinical uses. Clinical faculty utilize this instrument in both the Ocular Disease Service at the Community Eye Care Center and at the Indianapolis Eye Care Center. The imaging capabilities of this instrument provide detailed scans of the retina, nerve fiber layer, RPE, and choroid that assist diagnosis and management of conditions such as macular edema, macular holes, glaucoma, optic nerve drusen, ARMD, epiretinal membranes and many others. In many instances, the scans allow clinicians to confirm diagnoses made by examining the fundus with condensing lenses while in other cases the instrument provides the only information that allows the diagnosis to be made.

Advanced OCT and adaptive optics

Dr. Donald Miller's laboratory is developing the next generation of ophthalmic imaging systems that will allow clinicians and researchers to view the retina at the single cell level. Non-invasive observation of individual cells in their natural environment presents a new window of opportunity with enormous potential to address fundamental questions about vision as well as to provide earlier detection, better monitoring, and more effective treatment of retinal disease. Miller’s group has developed two research-grade cameras for probing the cellular level. The first incorporates novel technical advances that achieve a quantum leap in image quality over current commercial OCT instruments. Figure 2 shows two cross-sectional OCT images acquired on the same patient with the Stratus OCT3 and Miller's research-grade OCT instrument. Miller’s second camera employs a technology called adaptive optics that removes image blur caused by optical defects in the ocular media and results in ultra-sharp images of the retina. The example in Figure 3 shows two snapshots acquired of the same patch of cone photoreceptors in one patient's eye with and without adaptive optics correction. The left image has a sharpness that is comparable to the best possible with current clinical fundus cameras, while the right reveals the dramatic improvement in image quality achieved with adaptive optics. In the right image, each small bright spot depicts light exiting a single cone cell, which are only a few microns in diameter.

Dr. Steve Burns is using adaptive optics with a scanning laser ophthalmoscope (AO-SLO) to obtain high-resolution images over a large area of the retina. Figure 4 is a montage of such images showing unprecedented detail over an area approximately 5 degrees wide. Burns is using this...
technology to investigate the scattering function of the retina at high resolution and the relative importance of scattered light for revealing fine features of retinal structures.

**Imaging for telemedicine**

Drs. Ann Elsner, Vic Malinovsky, and Doug Horner are exploring new ways to diagnose ocular disease using inexpensive, low-resolution imaging technologies. Figure 5 shows low resolution images (256 x 136 pixels for a 15 x 15 deg field of view) from a 75 year old male patient with diabetic retinopathy. The left panel reveals retinopathy severe enough to cause venous beading and a vessel loop (arrow) in addition to the microaneurysms and hemorrhages (dark dots). Despite its low resolution, this image has high contrast due to novel scanning techniques. The right panel uses computerized image processing to reveal other pathological aspects of this patient’s eye. If inexpensive devices can be made with similar high contrast, then screening for diabetic retinopathy and other diseases can be brought to the underserved. Moreover, incorporating such cameras into a telemedicine network may reduce the cost per patient and time to diagnosis and treatment.

**Wavefront analysis**

Drs. Larry Thibos, Arthur Bradley, their students and colleagues are recognized leaders in the development of wavefront analysis, a core technology that is used to diagnose optical aberrations of eyes and evaluate outcome of treatments. One example of their current research, in collaboration with Dr. Pete Kollbaum, is shown in Figure 6. The diagnostic image of an eye obtained with a conventional Shack-Hartmann wavefront aberrometer (a) consists of a pattern of spots that measure wavefront slope on a grid of points in the eye’s pupil. This image is compared with that of a new generation of aberration-correcting contact lenses obtained with a new, high-resolution aberrometer with many more sample points. The increased resolution of this new instrument successfully measures wavefront slope (c) and wavefront shape (d) that the conventional aberrometer fails to measure.
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**Total Funding Requested:** $295,000
**Total Awarded:** $240,000
The Guanajuato Eye Care Center (GECC) opened in February of 2000 in Guanajuato, Mexico, about 150 miles northwest of Mexico City.

The GECC was designed to help meet the eye care needs of the indigent of the Guanajuato area of Mexico. The clinic's patients are a large, under-served population (over 2.5 million) with a wide variety of ocular and systemic health problems. It also provides fourth-year interns with an excellent clinical and cultural experience.

The development of the clinic occurred as a result of a longstanding, successful partnership between the IU student Volunteer Optometric Services to Humanity (VOSH) organization and the state of Guanajuato's Department of Infants and Family (DIF), which is the state organization charged with supporting the indigent.

The initial invitation was developed and extended to IU Optometry by DIF after the spring 1998 VOSH mission. Then during the VOSH mission in 1999, clinic space in the General Hospital of Guanajuato was allocated, architectural drawings were rendered and remodeling budgets were determined. The discussions were carried out by Douglas Horner, O.D., Ph.D. (representing IU), Carlos Perez Lopez, M.D. (the medical director of DIF), and IU alumnus Cynthia Foster, O.D. with the assistance of Anthony Gutierrez from the humanitarian organization I-Care International. The plans were then reviewed by the IU Optometry administration and the development of the clinic was unanimously supported by the faculty and University approvals were obtained.

In the fall and winter of 1999, the space in the hospital was remodeled, providing four complete examination lanes, a special testing area, a reception area, dispensing space and an office. Used equipment, donated equipment and some new equipment was shipped from Bloomington to Guanajuato. Dr. Foster was appointed as a full-time faculty member and director of the clinic. In February 2000, the first 4th year student clinicians arrived in Guanajuato and the following month the clinic was formally dedicated.

Fast forwarding to 2005, the new Clinic Director, Dr. Jennifer Page (OD 2002), is excited to be in the middle of DIF funding a brand new building to house both optometry and ophthalmology. The new building tentatively will open March 2006, and will allow better service to more patients. Where the optometry clinic sees about 14-21 patients a day, the new space should allow 40 to 50 people to be seen and examined, especially if an optometry resident can work there as well as the clinic director and three or four optometry interns. The new space will have eleven examination rooms (see area A&B below), an edging lab for fabricating glasses, and an optical dispensary (see area A below). The shared space will give better access to eye care for patients with cataracts and glaucoma due an ophthalmology surgical unit across the hall (see area C below). There is a nursing school in Silau, close to the new clinic location that wants to collaborate with the clinic to provide a combined nursing and optician degree. Nothing has been finalized, but that could allow the clinic to even better serve its patients.
Fourth Year Optometry Awards

AOA Advantage Award for demonstrated leadership and service to the School and community - Amy Rudser (Northfield, MN)

Boucher Communications New OD Scholarship for good patient communication and patient care skills - Anne Pfeffer (Adrian, MI)

AOA Student Leadership Award awarded to a student who has demonstrated leadership abilities through student government participation. Must also be a member of the AOA and be in good academic standing - Julie Ferguson (Madison, IN)

Third Year Optometry Awards

AOA Dr. Patrick Cummings Award for demonstrated leadership and service to the School and community - Lihn Vu (South Bend, IN)

Jack W. Bennett Endowed Scholarship awarded to a student in good academic standing and demonstrates need - Lihn Vu (South Bend, IN)

Chancellor’s Scholar awarded to student who has excelled by performing well academically or taking leadership roles - Rebekah Todd (Crystal Lake, IL)

Dr. Seymour Galina Grant by the American Optometric Association for a winning paper on the following topic: “The qualities I have developed through my financial planning/work experience during and/or before optometry school which I believe will be most useful to me establishing an ethical/professional optometric practice.” - Ryan Palmer (Albion, NE)

Kentucky Optometric Foundation Scholarship awarded to KY resident student who holds a Kentucky contract seat and exhibits academic excellence and need - Brian VanDerPloeg (Danville, KY)

Rogers W. Reading Endowed Award awarded to a student whose primary interest and/or area of study is binocular vision - Rebekah Todd (Crystal Lake, IL)

Rosemore Family Foundation Endowed Award ($1000) to an optometry student demonstrates commitment to the field of optometry, academic achievement, and financial need - Jonna O’Connor (Atkinson, NE)

Dr. and Mrs. Lewis Scott Scholarship awarded to student demonstrating potential leadership skills within the profession - Jonna O’Connor (Atkinson, NE)

Joseph Elmer Sidwell and Trula Sidwell Hardy Scholarship for an outstanding paper on professional ethics - Ryan Palmer (Albion, NE)
SOLAAquest Ophthalmic Optics Scholar Award to the student who best demonstrates knowledge and skill in ophthalmic optics - Eric Reinhard (Bluffton, IN)

Vision Service Plan Scholarship awarded to third year student demonstrating excellence in primary eye care services - Renee Schuler (Borden, IN) and Greg Smith (Westfield, IN)

Alice Bennett Indiana AFVA Scholarship awarded to a third year optometry student who exhibits service to others - Julie Ferguson (Madison, IN)

Wal-Mart Scholarship based on professional goals and need - Angela Archer (Charles City, IA)

E. F. Wildermuth Foundation Scholarship awarded to an incoming student, renewable annually if in good academic standing - Larrious Collins (Monticello, MS)

Second Year Optometry Awards

ACUVUE Eye Health Advisor Student Citizenship Award awarded for excellence in patient care and service - Guadalupe Mejia (Ann Arbor, MI)

AOF Rosemore Family Foundation Award awarded to a second-year optometry student demonstrates commitment to the field of optometry, academic achievement, and financial need - Rachael Click (Rushville, IN)

John Hitchcock Memorial Scholarship awarded to a student who demonstrates excellence in teaching diagnostic skills - Jason Gray (Princeton, KY)

Wal-Mart Scholarship based on professional goals and need - Angela Todd (Connersville, IN)

E. F. Wildermuth Foundation Scholarship awarded to an incoming student, renewable annually if in good academic standing - Idowii Awosika (Gary, IN)

Optometric Technology Awards

Technician of the Year awarded to the person who demonstrates overall excellence in all areas as an optometric technician - Graham Keith (Bedford, IN) and Julie Stepnoski (Dyer, IN)

Contact Lens Award - awarded to the person who displays proficiency in clinical contact lens techniques and procedures - Ann Padgett (Spencer, IN)

Essilor Optical Corneal Reflection Pupilometer Award (Pupilometer and plaque) for excellence in dispensing skills - Aubrey Schmidt (Valparaiso, IN)

First Year Optometry Awards

Jane Hofstetter Indiana AFVA Scholarship Awarded to an outstanding first year optometry student who exhibits service to others - Jennifer O’Connor (Bloomington, IN)
NOSA Chapter Revitalized

The National Optometric Student Association (NOSA), the student branch of the National Optometric Association (NOA), was revitalized and formally recognized during the 2000 school year and has since been growing steadily. NOSA’s mission on campus is to support and promote the advancement of minority students as they bridge the gap between undergraduate education and professional school. IUNOSA members often hold joint membership with the other optometric organizations to further their advancements in the optometric profession.

Currently, IUNOSA member Suzanne Jones, Class of 2007, is the National Vice-President for NOSA. She and IUNOSA president Lupe Mejia, and Mary Kutch, members of the Class of 2008, attended the national conference in Dallas, Texas this past July.

NOA was founded in 1969 in Richmond, VA, with the recruitment of minority students for the schools and colleges of optometry and their placement into appropriate practice settings being two basic concerns. Coincident with these concerns is the underlying purpose of the NOA -- delivery of effective and efficient eye and vision care services to the minority community.

Dr. Edwin Marshall, faculty advisor for IUNOSA, was the National Optometric Association president when NOSA was established. Under the leadership of Dr. Marshall and the history that he brings to organization, IUNOSA will continue to grow and represent IU Optometry across the country.

Profile of the Doctor of Optometry Class of 2009

A total of 80 students were selected from a pool of 390 for the class entering in August 2005. There are 37 Indiana residents, and 43 nonresidents from 21 other states and 1 other country. There are 28 men and 52 women. The average age is 23.3 years old and the age range is 20-33 years old.

Academic Statistics: The cumulative undergraduate mean GPA* is 3.49 and the median GPA is 3.52. Eighty-four percent of the class earned a bachelor’s degree prior to entering the School of Optometry.


*Medians and means are used in this profile. The median is the middle measure; one-half of the scores are above and one-half are below this number. The mean is the average measure.
Through the generous support of Vistakon, the IU School of Optometry recognized the Class of 2007 in the annual White Coat Ceremony in the Hoosier Room, under the IU Stadium. Surrounded by family and friends, students were cloaked by Drs. Harris and Meetz as their names were called by Dr. Tonekaboni and then congratulated by Dean Lowther. This ceremonial gesture signifies student’s entrance into the clinical phase of their education and recognition that they will begin seeing patients in the clinic.

To close the evening students were led in the Optometric Oath by Dean Gerald Lowther. It was a wonderful evening of celebration and acknowledgement of the Class of 2007’s accomplishments. A special thanks, again, to Vistakon for their financial generosity that made the event possible, and to the family and friends of the Class of 2007 who have consistently provided encouragement and support.

The White Coat Ceremony has its tradition in allopathic medical schools, and was initiated in 1993 at Columbia University. Since that time, it has gained popularity on many health profession campuses, including osteopathic medicine, dentistry, pharmacy, and optometry.

The ceremony is designed to establish a psychological contract for health professions students that stresses the importance of "caring" as a significant aspect of healing and serving patients. It also serves to reinforce the importance of portraying a professional posture so that patients and their loved ones feel comfortable placing their trust in the intern's hands.

White Coat Ceremony

Dr. Edwin Marshall, Associate Dean for Academic Affairs and Student Administration, shared the history of the White Coat Ceremony and the symbolism of the white coat. Keynote speaker for the evening was Dr. Philip Cochran, Associate Director for Leadership and Excellence at Indiana University who was selected to succeed Gerald Bepko as Director of the Tobias Leadership Center after an inaugural period of development. Dr. Cochran spoke to the students about their roles as leaders and the ethics of leadership.
The School of Optometry depends on donations from alumni, friends, and corporations to do those extra things that help propel the School to greater heights. Student fees, and the continual decrease of state appropriated dollars are not sufficient to operate a world-class program. Donations allow us to do those extra things that keep us at the high level.

How can you help?

1) Cash gifts to the annual fund:
Optometry alumni and other friends receive solicitations for help each year and we greatly appreciate the cash donations we receive annually from individuals and companies. This is an immediate help for such things as scholarships, building expansions and renovations, equipment and special projects. For example, some of these funds are used to operate our Guanajuato clinic in Mexico.

All gifts to the school are generally tax deductible. In the case of Indiana residents there is an increased tax incentive to give gifts of cash. For example, 50% of a married couple’s gift up to $400 ($200 for an individual), can be credited towards their Indiana state income tax resulting in an immediate savings of up to $200. In addition, if the maximum benefit were taken, the $400 would also be an income deduction on the federal tax form. Thus, for individuals in a 28% tax bracket there would be another savings of $112 on a $400 gift. Therefore, a gift of $400 to the school would cost a couple only about $88, creating a great benefit for IU Optometry at very little cost to the donor. (Please consult with your tax specialist to see how this affects your specific tax situation).

2) Gifts-in-Kind:
Gifts of equipment and supplies from individuals and companies are very helpful in the functioning of our clinics. Without the generosity of equipment gifts, no-charge loaned equipment, reduced pricing, two for one purchases and related programs we could not stay up to date with our sophisticated equipment and clinical program.

3) Endowed Gifts:
Another long-term commitment that many friends and alumni make is to our endowment funds. The IU Foundation invests all endowed funds and only a portion of the interest is used. Presently 5% of the interest on endowed funds can be spent with all excess earnings added to the principle of the fund to ensure its growth being faster than inflation. There can be endowed funds for many purposes including scholarships, awards, research, faculty development, professorships, chairs, and clinic development. There are many ways that individuals can contribute to endowed funds including cash gifts, gifts of tangible or appreciated property, or accumulated assets, many individuals overall estates are sufficiently large that heirs will end up paying very high taxes. Making a gift to the university through an estate plan can not only result in significant funds going to the university, but can also ensure nearly the same or potentially even greater benefits are left to a donor’s family, by reducing or eliminating much of the estate tax burden.

For example, while retirement plans such as an IRA or 401k are excellent vehicles to accumulate wealth, they are not effective for transferring it to heirs. If an individual passes on with a balance in one of these types of accounts, the IRS will levy a final income tax on the balance. It may also, depending on the size of the estate, levy an estate tax as well. This "double taxation" could reduce the balance by as much as 75%. The bequest of a retirement plan to Indiana University can eliminate excessive taxation of the remaining monies, and allows for the redirection of assets with lesser taxes to other beneficiaries, while contributing to the future well being of the school.
**Lifetime Giving Honor Roll**

**Visionary Circle ($250,000 and up)**

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**20/15 Circle ($100,000 to $249,999)**

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*denotes deceased
Corporate donors listed in this report are some of our most important friends, and we’re extremely grateful for their support. We could not stay up-to-date with the need for state-of-the-art equipment that is essential to the success of our many programs without the kindness of corporate donations including gifts of cash, gifts-in-kind, reduced pricing, two-for-one purchases, and loaner programs.

The School currently operates more than 75 exam and special testing lanes in all of its clinical locations. To fully equip each of these lanes would cost the School more than $1,500,000! This would not be possible without the special assistance of corporate donations and loans.

A corporate loan provides top quality equipment to the School at no cost. The equipment is then replaced periodically, ensuring students have access to the most cutting edge technology at all times.

On behalf of all who benefit from the Indiana University School of Optometry, it is our privilege to thank the many corporations who have contributed to the success of the School this year.

**CORPORATE FRIENDS**

There is a continual decrease of state appropriated dollars, and a constant increase of funding required to provide the comprehensive programs necessary to best educate students. There are simply not enough monies available to equip all of our clinics; funds are only available through the generosity of those companies that actively partner with the School of Optometry.

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- Lombart Instrument
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CC Systems
Cole Vision
Dicon
E.F. Wildermuth Foundation
Eye Center of Southern Indiana
Gerber Coburn
Haag-Streit USA
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Marco Ophthalmic, Inc.
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Optima, Inc.
Propper Manufacturing
Reliance Medical Products, Inc.
R. H. Burton
Silhouette Optical Limited
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The Foley House Award

The annual IU Optometry alumni reception at the AOA Congress has been the most unusual function sponsored by any group during the convention. Drs. Mike Obremsky and Don Pitts started the "Foley House Basement Breakfast and Awards Banquet" in 1976, awarding a replica of the key to the basement door of the Foley House annually to a person deserving special recognition for their role in the School's development or to a person who has brought distinction to the school through their efforts to promote optometry and optometric education.

The Foley House was located at 744 East Third Street and served as the first IU Optometry Clinic prior to the construction of the present building. The old house was in poor shape, was condemned, and finally demolished. The basement of the building was improvisationally adapted for use as a contact lens laboratory to serve the clinic upstairs and its rustic door stands in the School of Optometry Library to commemorate the recipients of the award. Its front step and etched glass from the door have been integrated into the Wall of Donors in the Optometry School lobby.

The breakfast was traditionally held at 7:44 a.m. in the most remote, obscure, possibly not very nice room that could be found at the convention in order to replicate the 'terribleness' of the Foley House facility. Storage rooms and a loading dock are two ingenious examples of locations! In 2002, the alumni reception was moved to an evening function to coordinate with other alumni receptions, bringing the uniquely strange tradition to an end.

The 2005 Foley House recipient is Dr. James Wessar (OD 1963). Dr. Wessar has given years of commitment and dedication to the IU School of Optometry and the overall profession. He has owned a successful practice in Anderson, Indiana, for over 30 years, practicing general vision care, children's vision care, specializing in learning disabilities and developmental vision. He has also been a featured lecturer across the Midwest and served as an adjunct professor for the IU School of Optometry.

Previous Foley House Awardees:

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<th>Year</th>
<th>Recipient</th>
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<td>2004</td>
<td>Dr. Chuck Haine</td>
<td>1996</td>
<td>Dr. Dawn Kaufman</td>
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<td>Dr. Steve Van Cleve</td>
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<td>Dr. Steve Hitzeman</td>
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<td>2002</td>
<td>Dr. Doug Morrow</td>
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<td>Lois Selk</td>
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<td>1998</td>
<td>Dr. George Rector</td>
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<td>1997</td>
<td>Dr. Jerald Strickland</td>
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Cousin to Ora Wildermuth, former president of the IU Board of Trustees, E.F. Wildermuth lived in Columbus, OH, making his living manufacturing spectacles for optometrists. After his death, the E. F. Wildermuth Foundation was established which commits the majority of its contributions to schools and colleges of Optometry.

Mrs. Harriet Slaughter, an E. F. Wildermuth Foundation board trustee, has been a gracious advocate for the Indiana University School of Optometry. As a result of her efforts, the E. F. Wildermuth Foundation Harriet Slaughter Endowed Scholarship has been established to benefit Indiana University optometry students. "My family has always been interested in philanthropy that kept people healthy. That tradition continues to be passed along through the next generation." The Wildermuth Foundation continues their steadfast support of optometry students at Indiana University advancing a family philanthropic mission devoted to bettering the health of others.

Capstone

Capstone is a graduation week event that began over a decade ago as an opportunity for students to familiarize themselves with ophthalmic companies as well as learn practice management strategies from practitioners with wide-ranging backgrounds and career paths. The event also serves as an chance for various optometric associations and organizations to welcome the graduates in the profession.

The IU Capstone event has become so iconic that many other optometry schools have not only replicated the event for their graduating class but some have even named their graduating event "Capstone" as well.

Thank you to all our sponsors, without whom this event would not be possible.

2005 Capstone Sponsors

- Advanced Medical Optics
- Alcon Laboratories
- Bausch & Lomb
- CIBA Vision
- CooperVision
- Essilor
- Indiana Optometric Association
- IU Optometry Alumni Association
- Vistakon
- Wal-Mart
**The Spirit of Philanthropy**

The Spirit of Philanthropy award is given each year to recognize outstanding individuals or companies for their special contributions to the School of Optometry at a luncheon sponsored by the schools reporting to the IUPUI campus. We are proud to have had multiple recipients of the 2005 Spirit of Philanthropy award.

**Dr. William Baldwin** was one of the first to receive an MS in Physiological Optics from IU (1956). Afterwards, he taught physiological optics as graduate student in 1957-1958, served on the IU Optometry faculty from 1959-1963, and received a PhD from IU in 1964. His remarkable career has included a broad spectrum of areas in optometry, vision science, and humanitarian causes. He has served as Dean at two Colleges of Optometry, both Pacific University and the University of Houston as well as the President of New England College of Optometry. Dr. Baldwin has served with distinction on the Academy’s Education Committee, Editorial Board, and as a Board member of the American Optometric Foundation and earned a Life Fellowship from the American Academy of Optometry. Dr. Baldwin was instrumental in the founding of public health optometry programs in foreign countries, and has served as President of the River Blindness Foundation.

**Dr. Virginia A. Caine** is Director of the Marion County Health Department. She is an Associate Professor of Medicine at Indiana University School of Medicine Infectious Disease Division, and Past President for the American Public Health Association. Dr. Caine earned her medical degree at New York Upstate Medical Center in Syracuse, did her Internal Medicine residency at the University of Cincinnati and received her Infectious Disease training at the University of Washington in Seattle. Dr. Caine was chosen for the Spirit of Philanthropy award because of her financial support, volunteer commitment and service as an advocate for the Eye Care Community Outreach program. According to Dr. Jack Downey, IU School of Optometry Assistant Clinical Professor and medical advisor to ECCO, Dr. Caine has been instrumental in improving access to vision health care services for patients who might otherwise go untreated, both by procuring a grant for ECCO from the Marion County Health Department, and also by expediting a new relationship between IU School of Optometry and the Wishard Health Care System which will allow specified patients with diabetes to gain access to vision care in a more timely manner.

**Brett Swanda Scholarship**

**Brett Swanda**, a member of the Class of 2005, unexpectedly passed away in March, 2005 while on his fourth-year clinical rotation. His classmates and all who came in contact with him remember his unfailing courtesy and sense of humor.

Brett's parents and sister were in attendance at the Class of 2005 graduation banquet where they received Brett's Doctor of Optometry Diploma, posthumously. Brett's father shared with the audience how excited Brett was about his chosen profession and how he looked forward to graduating and to begin practicing.

"Brett's loss was a terrible tragedy. He was a positive, driven young man who had already overcome many obstacles and become very successful as a doctoral student. He worked very hard and was well liked by his patients and our clinic staff alike. He will be missed" said Dr. Aaron Banta, external rotation supervisor at Lackland AFB, TX.

A scholarship fund has been established in Brett's name in order to honor and remember him, as well as to help future optometry students. If you would like to contribute to the Brett Swanda Memorial Scholarship fund you may send a check payable to the "Indiana University Foundation" to: IU School of Optometry, c/o Helene Laufasa, 800 E. Atwater Avenue, Bloomington, IN 47405.
CONTINUING EDUCATION

July 16, 2005 Pediatrics Day
(sponsored by Vision Service Plan)
Integrating infants into the primary care practice. Dr. Glenn Steele
CSI: Common strategies for the infant. Dr. Glenn Steele
Pediatric eye disease: Benign to blind. Dr. Don Lyon

July 30, 2005 Optics Day
Introduction to wavefront optics and aberrometry. Dr. Arthur Bradley
Success and failure of wavefront correction with contacts and refractive surgery. Dr. Arthur Bradley
Biopic driving for the low vision patient. Dr. Sean Knaak
Visual field grand rounds. Dr. Patty Henderson

August 21, 2005 Potpourri Day
Overview of endophthalmitis. Dr. Khash Tonekaboni
Orbital and oculoplastics grand rounds. Dr. Steve Klapper
Sports-related ocular trauma. Dr. Steve Hitzeman
Sports vision for golfers. Dr. Steve Hitzeman

July 17, 2005 Therapeutics Day
Viral eye disease. Dr. Sarah Huseman
What's new in glaucoma. Dr. SP Srinivas
Statins--Super drugs of today? Dr. SP Srinivas
Neuroprotective strategies for the optic nerve--An overview. Dr. Suresh Viswanathan
Anterior segment grand rounds. Dr. Jane Ann Grogg

July 31, 2005 Therapeutics Day
Refractive lens surgery. Dr. Kevin Waltz
A clinician's guide to glaucoma. Dr. Deepak Gupta
The Optometry Big 10. Dr. Jane Ann Grogg

August 20, 2005 OCT Day
(sponsored by Carl Zeiss Meditec)
Clinical overview of OCT technology. Drs. Larry Alexander, Vic Malinovsky and Brad Sutton
Ocular tumors, malignancies, and neoplasms. Dr. Brad Sutton
Management of the uveitic patient. Dr. Julie Torbit

December 28, 2005 Therapeutics Day
(sponsored by Essilor)
New drugs for old bugs: New ophthalmic medications. Dr. Jim Colgain
Aviation vision: 20 years of pearls about aviation vision, flying, and the role of the optometrist. Dr. Brad Sutton
Mastering and managing the treatment of the red eye. Dr. Brad Sutton
Oral medications in eye care. Dr. Brad Sutton

July 18, 2005 Contact Lens Day
Contact lens update: New developments in lenses, solutions, and industry trends. Treatment of contact lens complications. Presbyopia and contact lenses. Dr. Neil Pence and Dr. Susan Kovacich

August 20, 2005 OCT Day
Clinical overview of OCT technology. Drs. Larry Alexander, Vic Malinovsky and Brad Sutton
Ocular tumors, malignancies, and neoplasms. Dr. Brad Sutton
Management of the uveitic patient. Dr. Julie Torbit

December 29, 2004 Potpourri Day
Inflammatory and infectious ocular diseases in childhood. Dr. Don Lyon
Amblyopia grand rounds: Atropine and the patch. Dr. Don Lyon
Recent advancements in low vision technology. Dr. Sean Knaak
Corneal grand rounds. Dr. Clark Springs

ON-LINE CE
http://www.opt.indiana.edu/ce/online.html

Anterior Segment Grand Rounds
Author: Victor E. Malinovsky, OD, FAAO

Favorite Mystery Cases
Author: Brad M. Sutton, OD, FAAO

Hemianopsia and Neuroanatomy
Author: Paul A. Pietsch, PhD

Herpes Simplex Keratitis
Author: Brad M. Sutton, OD, FAAO

Ocular Allergy
Author: Julie K. Torbit, OD, FAAO

Retinal Vascular Disease
Author: Brad M. Sutton, OD, FAAO

Topical Antibiotics Update
Author: Brad M. Sutton, OD, FAAO
**Administrative Services**

800 East Atwater Avenue  
Bloomington, IN 47405

Administrative FAX .............................................. 855-8664  
Gerald E. Lowther, Dean ..................................... 855-4440

**Associate Deans**

Daniel R. Gerstman, Exec. Assoc. Dean for  
Budgetary Planning and Admin ................................ 855-7203  
Edwin C. Marshall, Academic Affairs and  
Student Administration .................................... 855-4475  
Joseph Bonanno, Research ................................. 855-4475  
Graeme Wilson, Graduate Programs .................... 855-7595

**Directors**

Julia Broadstreet, Human Resources .................. 855-1290  
Clifford Brooks, Optician / Technician Program .... 855-1298  
Douglas Freeman, Technology ............................ 855-8629  
Cindy Vance, Student Administration .................. 855-1917  
Steven Hitzeman, Clinics ..................................... 855-4979  
Helene Laufasa, Development ............................... 855-0351

**Support Services**

800 East Atwater Avenue  
Bloomington, IN 47405

Carpenter and Machine Shop .................... 855-5201  
Computer and Electronics ......................... 855-4786  
Financial Aid Advisor ............................. 856-4478  
Optical Laboratory ................................. 855-5305  
Optometry Library .................................... 855-8629  
Placement Services .............................. 855-1917  
Receptionist-Dean’s Office .................. 855-4447  
Student Administration ......................... 855-1917  
Supply Room ........................................ 855-0422  

Website .............................................. http://www.opt.indiana.edu

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**VISION STATEMENT**

"The Indiana University School of Optometry will be at the leading edge of vision care for the people of the world."

**MISSION STATEMENT**

The mission of the School of Optometry is to protect, advance and promote the vision, eye care and health of people world wide by

- preparing individuals for careers in optometry, the ophthalmic industry and vision science and
- advancing knowledge through teaching, research and service.

This will be accomplished through the Doctor of Optometry, Optician/Technician, residency and graduate programs.
Our appreciation is extended to Essilor of America for financial support of this Annual Report. Varilux® is a registered trademark of Essilor International, S.A.