

Richard Allen Hill, M.D.

Curriculum Vitae

Academic Background

1978 University of California, Los Angeles
Awarded Bachelor of Science Degree (Chemistry)
1979-1981 Northwestern University Dental School, Chicago, Illinois
1981-1985 Northwestern University Medical School, Chicago, Illinois
2000 Awarded Doctor of Medicine Degree (Hon.)
Yeravan State University

Professional Background

1978-1979 Environmental Chemistry
Global Geochemistry, Santa Monica, California
1985-1986 Internship, St. Joseph Hospital, Chicago, Illinois
1986-1989 Resident in Ophthalmology, The Pennsylvania State
University, College of Medicine, Hershey, Pennsylvania
1989-1990 Glaucoma Fellowship, University of Southern
California/Doheny Eye Institute,
Los Angeles, California
1990-1997 Assistant Professor of Ophthalmology, University of California,
Irvine
1997-2006 Associate Professor of Ophthalmology, University of California,
Irvine
1990-2006 Attending Physician in Glaucoma, Long Beach Veterans
Administration Hospital
2006- Founder, Orange County Glaucoma

University Service

Vice-Chairman, Department of Ophthalmology 1997 - 1998
Residency Director, Department of Ophthalmology 1997 - 1998
Chief of Ophthalmology, UCI Medical Center 1992 - 1998
Deputy Chief of Ophthalmology, UCI Medical Center 1990 - 1992
Director, Glaucoma Service, UCI Medical Center 1990 - 1998
Credentials Committee, UCI Medical Center 1991 - 1999
Operating Room Committee, UCI Medical Center 1990 - 2004
Laser Committee, UCI Medical Center 1992 - 1996
Executive Committee, UCI Medical Center alternate with vote 1990 - 1996
Executive Committee, UCI Medical Center 1997 - 1999
Admissions Committee for Residents, Department of Ophthalmology 1990 - 1999
Interviewer for Medical Student Applicants UCI 1991 - 1992
Medical Group Executive Committee UCI Medical Center alternate with vote 1990 - 1993
Accreditation Council for Graduate Medical Education (ACGME)
Accreditation Survey and Site Visit, Department of Ophthalmology 1990, 1997
Medical Staff Review Committee, UCI Medical Center 1990
Quality Resource Management Liaison Officer, UCI Medical Center 1990 - 1999
Developed and updated the Quality Assurance Program Department of Ophthalmology for in-patient and
out-patient surgical care, UCI Medical Center 1991 - 1999
Developed and updated the Quality Assurance Program: Ambulatory Care, Ophthalmology, UCI Medical
Center 1992 - 1999
College of Medicine, Representative Assembly, alternate with vote 1994 - 1996
Reviewer in Ophthalmology, Medical Risk Management Committee 1991- 1998
Curriculum and Educational Policies Committee; special section on the use of computers in medical
education 1992
University Speakers Bureau 1990 - 2004

Participant, LCME Limited Accreditation Site Survey, UCI Medical Center, November 2 - 4, 1992
Search Committee, Assistant Dean of Faculty Development, UCI, 1993
Search Committee, Chair, Department of Ophthalmology 1997 - 1998
Medicare Compliance Committee (IL-372) 1996 - 1998
Human Resources Committee, UCI Health Systems, 1996 – 1997
Academic Senate alternate with vote 1990 – 1996
UCI Endophthalmitis Committee, 2003-2004

Journal Peer Reviewer

Ophthalmology
British Journal of Ophthalmology
Journal of Glaucoma

Membership in Professional Societies

American Academy of Ophthalmology (AAO)
American Medical Association (AMA)
Association for Research in Vision and Ophthalmology (ARVO)
Orange County Ophthalmology Society
Orange County Medical Association
American Glaucoma Society

Study Sections

N.I.H. Special Study Section on Lasers (SSS-1) Group: R6/R5, 1992
N.I.H. Special Study Section on Lasers (SSS-1) Group: 16/19, 1993
N.I.H. Special Study Section on Lasers (SSS-1) ZRG7, Group: 22, 1995

Community Service

Expert Reviewer, Medical Board of California 1990 - 2004

Medical License

California, G065674

Specialty Board Certifications

Diplomat of the National Board of Medical Examiners 1986.
Certified by the American Board of Ophthalmology, 1990

Awards

1. The Medical Research and Education Support Society award for young investigators, 1990.
2. Excellence in teaching, 1994-1995. This is an award presented by the resident staff to outstanding educators within the Department of Ophthalmology.
3. Teacher of the Year; 1994 - 1995. Awarded by the Resident Staff, Department of Ophthalmology.
4. Humanitarian award for contributions made to graduate medical education in Armenia. Presented by the American-Armenian Medical Society, annual meeting October 14, 1995.
5. Outstanding Faculty Award; 1998. Awarded by The UCI Alumni Association.
6. Achievement Award 1999. American Academy of Ophthalmology, San Francisco, California.
7. Honorary Doctorate of Medicine from the Republic of Armenia. This was awarded in appreciation for developing the post graduate medical education program for ophthalmology in Armenia. 10/6/00.

8. Teacher of the Year, awarded by the Resident Staff, Department of Ophthalmology, 2002-2003.

Contracts / Grants / Clinical Trials

1. Infrared lasers in the treatment of glaucoma. The Medical Research and Education Support Society, The University of California, Irvine. \$10,000 total direct costs. Principal Investigator; 12/90 - 11/91.
2. Pulsed lasers for the treatment of glaucoma. "Centers of Excellence in Laser Research"; DE-FG03-91ER61227, DOE 445143-22443. \$97,918 total direct costs. Sub-section Principal Investigator, 9/1/91 - 12/31/96. This grant provided resources to study laser-tissue interactions and allowed future SBIR submissions.
3. The effects of pulse width on laser trabecular ablation. Candela Laser Company; \$12,500 total direct costs. Support for basic research and the initial University of California, Irvine human clinical trial of laser trabecular ablation. Principal Investigator; 3/92 - 4/93.
4. The safety and efficacy of 2% pilocarpine in perfluorodecalin in subjects with open angle glaucoma or ocular hypertension in subjects with open angle glaucoma or ocular hypertension. A pilot study in conjunction with Allergan Pharmaceuticals, \$37,347 total direct costs. Human Subjects Committee # 92-251. Principal Investigator; 10/19/92 - 4/30/93.
5. Photodynamic therapy of experimental ocular melanoma. \$15,000 total direct costs. Principal Investigator, ACS Institutional Grant IRG-166F; 7/1/93 - 6/30/95.
6. The safety and efficacy of timolol hemihydrate in subjects with open angle glaucoma or ocular hypertension. Phase III trial in conjunction with Leiras Pharmaceuticals. \$71,251 total direct costs. Principal Investigator; 11/15/92 - 1/27/95. Human Subjects Committee # 92-250. Product now FDA approved and sold by Ciba-Geigy as Betimol.
7. Unrestricted gift from PDT Pharmaceuticals, \$5,000.00. 1995.
8. The safety and efficacy of the Ahmed valve in subjects with intractable glaucoma. A phase III trial in conjunction with New World Medical. Human Subjects Committee # 92-252 and 96-333. This device is now FDA approved. 2/10/93 - 2/28/97.
9. Ab-externo erbium: YAG laser sclerostomies for the treatment of human open angle glaucoma. Human Subjects Committee # 92-016. This device is now FDA approved. 4/28/93 - 4/30/94.
10. Photodynamic therapy of experimental ocular melanoma. \$15,000 total direct costs. Principal Investigator, ACS Institutional Grant IRG-166F; 7/1/93 - 6/30/95.
11. 3a and 3b. Laser trabecular ablation with an erbium: YAG laser; 1R43 EYO9156-01 and 2R44 EYO9156-01; SBIR phase 1 and 2. \$132,516 total direct costs. Laser-tissue interaction, instrument development and human clinical trial: Ab-interno erbium: YAG laser trabecular ablation for the treatment of human open angle glaucoma. Co-Principal Investigator; 8/13/93 - 2/28/96. Primary intellectual contribution.
12. Ophthalmic applications of free electron lasers. N00014-91-C-0134 (ONR-MFEL). \$57,406 total direct costs; Co-Principal Investigator; 1/1/94 - 12/31/95.
13. Primate trabeculoplasty with the frequency doubled Nd:YAG laser. Clinical trial for FDA approval (trabeculoplasty) of Ophthalas® 532 SL. \$5,001 total direct costs. Principal Investigator; 7/20/94-7/19/95.
14. Photodynamic therapy of the ciliary body in a rabbit model. 1 R43 EY11034-01; Co-Principal Investigator, \$22,650 total direct costs. 7/26/95 - 1/25/96. Primary intellectual contribution.

15. Photodynamic therapy as a method of antifibrosis for filtration surgery. 1 R43 EY11212-01A1; Co-Principal Investigator, \$18,945 total direct costs. 7/31/96 - 11/30/96. Primary intellectual contribution.
16. Investigation of Free Electron Laser Ablation of Biological Tissues. FY 1996 CULAR; Co-Principal investigator, \$6,976 collaborative grant from Los Alamos National Laboratory; 6/1/96 - 3/31/97.
17. 4a. Nonscanning confocal camera for topographic evaluation of the optic nerve head. 1 R43 EY11339-01 (SBIR), Due to time constraints, Dr. Hill's role was changed to Consultant. \$5,000 total direct costs; 7/26/95 - 1/31/96. Secondary intellectual contribution.
4b. 3-D Nonscanning Confocal Camera for Nerve Head Profiling. 1 R44 EY11339-01 (SBIR); \$60,374 total direct costs. Co-Principal Investigator, 11/1/98-11/1/99. Secondary intellectual contribution.
18. Trabecular Bypass Stent and Applicator 1R43EY13903-01 Phase 1 (SBIR). Total costs \$100,000. University policy restricts faculty from being officers in corporations (Glaukos). Dr. Hill's role in this authored grant is limited by this policy to consultant. This grant was written for additional funding supporting a UCI licensed technology.
19. R. Hill and E. Sadri, Student Sight Saver Program, \$19,000.00 to be used for the purpose of creating and maintaining a Student Sight Saver program, implementing a community based Glaucoma screening program. Friends of The Congressional Glaucoma Caucus Foundation. 02/2005 - 12/26/2006.

Courses Taught

1. Glaucoma Basic Sciences 1990 - 2006
2. Mechanisms of Disease, Glaucoma Section 1990 - 2006
3. Introduction to Glaucoma 1990 - 2006
4. Ophthalmic Instrumentation 1990 - 2006
5. Anterior Segment Microsurgery 1990 - 2006
6. Medical and Laser Therapy for the Treatment of Glaucoma 1990 - 2006
7. Annual Board Review 1990 - 2006
8. Patient Doctor II, 1993 - 2006
9. American Academy of Ophthalmology; Annual Meeting; Instructor for Course HO- 10. Laser Therapy for the Treatment of Glaucoma. 1994
10. American Academy of Ophthalmology; Annual Meeting; Course 157. The Role of the Ahmed Valve in the Surgical Management of Glaucoma. Neil T. Choplin, Richard A. Hill and Anne L. Coleman. 1995
11. American Academy of Ophthalmology; Annual Meeting; Course 157. The Role of the Ahmed Valve in the Surgical Management of Glaucoma. Neil T. Choplin, Richard A. Hill and Anne L. Coleman. 1996
12. American Academy of Ophthalmology; Annual Meeting; Course 157. The Role of the Ahmed Valve in the Surgical Management of Glaucoma. Neil T. Choplin, Richard A. Hill and Anne L. Coleman. 1997
13. BioSci 130B Photomedicine: Biology/ Medicine, University of California, Irvine. Lecture: Lasers in Ophthalmology I: Glaucoma. 1997
14. BioSci 130B Photomedicine: Biology/ Medicine, University of California, Irvine. Lecture: Lasers in Ophthalmology I: Glaucoma. 1998.

International Ophthalmology

1. Visiting Professor at the invitation of the Ministry of Health and the Republican Eye Hospital, Yerevan, Armenia, September, 1994.
2. Co-organizer First and Second Annual Congress of Armenian Ophthalmology. 1995, 1996.
3. Hospital, Yerevan, Armenia, May, 1994 Developed the plan for post graduate education in ophthalmology with the Minister of Health (Ara Babloyan) and Deputy Minister of Health (Ara Ter-Gregorian) . This plan was adopted prior to the April 1995 visit. It serves as a model for reform in ophthalmology and the other medical specialties.
4. Visiting Professor at the invitation of the Ministry of Health and the Republican Eye Hospital, in Yerevan, Armenia, 1995 – present. 15 trips in 10 years.
5. Participant Project Orbis, Yerevan, Armenia, September, 1996.
6. Inaugural mission of the mobile eye hospital (MEH) to Astarak, Armenia. A team of 50 screeners evaluated a town of 30,000. The “socially vulnerable” with surgical eye disease were identified and operated on over a three week period by the MEH and AECOP physicians. July, 2003.
7. Developing the Armenian Board of Ophthalmology. I have used The International Congress of Ophthalmology in coordination with Dr. Peter Watson as the written qualifying body and will design an oral board examination using the US model. 2002-2004. This will further guide educational reforms in Armenia and be used as a template for other medical specialties.

Technology Transfer Disclosures / Patent Applications / Inventions

1. Photochemical mediated transscleral cyclophotocoagulation, for the treatment of complicated glaucoma. University, Industry, Research and Technology (UIRT) case No. 92-096. Invention developed under SBIR funding (R43 EY11034-01) with PDT Pharmaceuticals.
2. Photodynamic therapy as a method of antifibrosis for glaucoma surgery. University, Industry, Research and Technology (UIRT) case No. 95-148-1. Patent Application No. 08/347956; Invention developed under funding by PDT Pharmaceuticals and SBIR funding (EY11212-01A1).
3. Bio-erodable delivery systems: uses monomers from the FDA generally recognized as safe list (GRASS).
 - a. Bio-erodable delivery systems for glaucoma implants; University, Industry, Research and Technology (UIRT) Case No. 95-038. Co-Inventors Richard Hill, MD and Samuel Chess, M.S.
 - b. Bio-erodable delivery systems for ventriculoperitoneal shunts; University, Industry, Research and Technology (UIRT) case No. 95-251. Co-Inventors: Richard Hill, M.D., Mateen Ahmed Ph.D. and Samuel Chess, M.S.
4. A Visual Field Screening Device for the detection of glaucoma. The device described in University, Industry, Research and Technology (UIRT) case #97-141-1 uses blue on yellow stimulus, spatial frequency, and contrast sensitivity. A black and white version also exists. It is fast, easily portable, simple to understand and inexpensive.
5. Hill Glaucoma Forceps; Developed with Micra Instrument Co.
6. Patent application No. 07/879,193: UCI/Innerspace inc. This patent application covers the use of an intraocular microtransducer to perform intra-operative tonography during laser trabeculotomy procedures and names Dr. Hill as Co-inventor.

7. Apparatus and method for treating glaucoma. Ser. No. 09/549,349, filed 1/10/00; Issued, 11/20/02. This is the patent for Ab-interno Trabecular Bypass Surgery (TBS). This technology was licensed to start Glaukos Corp. The medical device resulting from this patent has European approval and is starting clinical use in September, 2004.

10 Method for photo-altering a biological system to improve biological system to improve biological effect. UC Case No. 95-148-1. U.S. Patent No. 6,095,147. Issued Aug 1, 2000. This patent is for the use of photodynamic therapy as antifibrotic for glaucoma filtration surgery.

Patent pending: "Alpha agonists and topical applications". Serial number 60,442,098 filed January 23, 2003. This patent application is for the use of topical alpha agonists in microinvasive surgery both as vasoconstrictors and topical anesthetics.

Inventor; i-Stent. CE marked (approved for use) in Europe 8/19/04. This is my trabecular stent, designed to be used in open angle glaucoma. The FDA trial has started and will allow pooled data from our European studies.

Research Students / Post Doctoral Scholars / Fellows

Andrew Tang	1991
Hideko Yoshiro; (Fullerton School of Optometry)	1991-1994
Minh Tri Le; (Yale Medical School)	1991
Chris Constan	1992
Shridar Reddi; (UCI Medical School)	1992-1994
Martin Dahl; (University of Tokyo, Biochemistry)	1993-1994
Anthony Treadway	1993
Julie Kim	1993-1995
James Garret; (USC Medical School)	1994-1995
Terri Esterowitz; (Eastern Virginia Medical School)	1994
Faris Ghosheh, UCI Medical School	1995-1997
Alexander Berdy; UCI Medical School	1996-1997
Thomas McDonald, MD	1995-1996
Leslie Bruce-Lyle, MD	1996-1997
Michael Mc Duggle-Bethlem, MD	1997-1998
Rasha Hindiyyeh	1998-1999
Lilit Voskanyan, MD	1999-2000
Ghada Altaher, MD	2002-2003
Dao Thatsnarong, MD	2003-2004
Ehsan Sadri, MD	2004-2005

Major Conferences

1. Glaucoma Update 1992; July 11, 1992, Beckman Conference Center. Organizer, chief instructor, and moderator. Certified for 7 hours of CME. This conference provided ophthalmologists with updates on laser therapy for glaucoma management and prevention of surgical complications, updates in automated perimetry and pharmacologic adjunctive therapies. The wet lab portion of this conference was held at Beckman Laser Institute and provided ophthalmologists with hands on training with new laser modalities for the treatment of glaucoma.

2. Glaucoma update 1993; December 4, 1993, Beckman Conference Center. Organizer, speaker and moderator. Certified for 7 hours CME. This conference provided ophthalmologists with updates on health care reform, common Medicare billing errors, glaucoma diagnosis, new medical/surgical therapies, management of complications and medical-legal liability updates for the glaucoma patient.

3. Organizer first Annual Armenian Congress of Ophthalmology. September 16, 1994, Republican Eye Hospital, Yerevan, Armenia. Conference updated Armenian ophthalmologists on modern ophthalmic techniques. Future conferences will include other former Soviet Republics as local conditions permit.

4. Organizer and Speaker, Second Armenian Congress of Ophthalmology. September 15, 1995, Republican Eye Hospital, Yerevan, Armenia. Conference updated Armenian ophthalmologists on

medical and surgical ophthalmology. Emphasis was placed on glaucoma diagnostic and treatment skills, esthetic repair of combat injuries and cataract surgery. This conference had extensive panel discussions.

5. Glaucoma Update 1996; May 4, 1996, Long Beach Memorial Hospital. Organizer, speaker and moderator. Certified for 3 hours CME. This conference provided ophthalmologists with updates on glaucoma diagnosis, new medical/surgical therapies, management of surgical complications and a cataract surgery update.

6. Organizer and Speaker, Third Armenian-American Congress of Ophthalmology. November 4, 1998, Republican Eye Hospital, Yerevan, Armenia. Conference updated Armenian ophthalmologists on medical and surgical ophthalmology. Emphasis was placed on glaucoma laser physics, laser-tissue interactions, laser treatments for glaucoma refractive surgery and vitreoretinal surgery.

7. Organizer and Speaker, Fifth Armenian-American Congress of Ophthalmology. October 6, 2000. Republican Eye Hospital, Yerevan, Armenia. Conference further established the Republican Eye Hospital as the leading eye institute in Armenia.

8. Series of teleconference lectures given on complications of glaucoma to the Indian Health Service/Public Health Service in Alaska, Pacific, Mountain and Central time zones. August-September 1999.

9. Presenter: Glaucoma: New Developments and State-of-the-Art. Doheny Eye Institute. Feb. 19, 2000. Pearls and Pitfalls of the Ahmed Valve.

10. Presenter, Ho Sin Sool, Self Defense For The Glaucoma Doctor. Scripps Clinic, Pearls Of Ocular Therapy. June 3, 2000.

11. Lumigan Consensus Meeting, Laguna Beach, CA. Feb. 8-10, 2001.

12. Merck Glaucoma Specialists Consultant's Meeting. Banf, Canada Feb. 16 – 18, 2001.

13. Glaucoma Update, Pharmacia, Beverly Hills, CA. Feb. 23 – 25, 2001

14. American Glaucoma Society Annual Meeting. Laguna Beach, CA March 1 – 4, 2001

15. Allergan Round Table Discussion, Anaheim, CA, March 12, 2001.

16. Phoenix Ophthalmological Society meeting, speaker. March 22, 2001.

17. Invited speaker, Arizona Eye Society 2/8/04. New frontiers in Glaucoma Therapy.

18. Organizer, Glaucoma Update 2004. Beckman Conference Center

Publications: Peer Reviewed

1. **Hill RA**, Kratz K and Schanzlin DJ. A new method of cutting frozen corneal tissue for cryorefractive surgery. J. Refract. Surg., 2: 80-82, 1986.
2. Johnson LN and **Hill RA**. Correlation of afferent pupillary defect with visual field loss on automated perimetry. Ophthalmology, 95: 1649-1655, 1988.
3. Stock EL, **Hill RA**, Boyle-Vavra S and Roth SI. Granulated cells in the guinea pig conjunctiva. Am. J. Anat., 186(4): 359-368, 1989.
4. **Hill RA**, Aminlari A, Sassani JW and Michalski M. Use of a symblepharon ring for treatment of over-filtration and leaking blebs after glaucoma filtration surgery. Ophthalmic Surg., 21(10): 707-710, 1990.
5. **Hill RA**, Johnson LN, and Parnes R. Sphenoid sinusitis. J. Nat. Med. Assoc., 83(1): 85-86, 1991.

6. **Hill RA**, Özler SA, Profeta GA, Baerveldt G, and Berns, MW. Laser trabecular ablation (LTA). *Lasers Surg. Med.*, 11:431-346, 1991.
7. Özler SA, **Hill RA**, Baerveldt G, Andrews JJ and Berns MW. Infrared laser sclerostomies. *Invest. Ophthalmol.*, 32 (9): 58-63, 1991.

Abstracted by Current Science; Iwach; Current Opinion in Ophthalmology, Vol 4; Number 2. Abstracted by Lasers for sclerostomy; Annual of Ophthalmic Laser Surgery, 1:82-90, 1992.

8. **Hill RA**, Minckler DS, Lee M, Heuer DK, Baerveldt G and Martone JF. Apraclonidine prophylaxis for post-cycloplegic intraocular pressure spikes. *Ophthalmology*, 98 (7): 1083-1086, 1991.

Abstracted with permission by the Mosby Year Book, Optometry: Current Literature in Perspective, April 1992.

Abstracted by Clinical Digest Series Journal, a review journal for the physicians of Europe.

9. **Hill RA**, Heuer DK, Baerveldt G, Minckler DS and Martone JF. Molteno implantation for glaucomas in young patients. *Ophthalmology*, 98 (7): 1042-1046, 1991.

Abstracted by Clinical Digest Series Journal, a review journal for the physicians of Europe.

10. **Hill RA**, Minckler DS, Lee M, Heuer DK, Baerveldt G, Martone JF, Medical Management of Cycloplegic-induced intraocular pressure spikes. Gramer-Kampik (Hrsg.) *Pharmakotherapie am Auge*, 1992.

11. **Hill RA**, Özler SA, Baerveldt G, Viscardi JJ, Keates RH, Lee M, Harrington JA and Berns MW. Ab-Interno neodymium:YAG versus erbium:YAG sclerostomies in a rabbit model. *Ophthalmic Surg.*, 23(10): 192-197, 1992.

Abstracted by Current Science; Iwach; Current Opinion in Ophthalmology Vol 4; Number 2.

12.

- Hill RA**, Nguyen Q, Baerveldt G, Forster D, Rao N, Heuer DK and Minckler DS. Trabeculectomy and Molteno implantation in glaucoma associated with uveitis. *Ophthalmology*, 100: 903-908, 1993.

13. **Hill R**, Lesiecki M, Stern D, Hsia J and Berns, M. The effects of pulse width on laser trabecular Ablation. *Lasers Surg. Med.*, 13:440-446, 1993

14. **Hill R**, Le M, Yashiro H, Constan C, Stern D, Lesiecki M, Brown L and Berns M. Ab-Interno erbium(Er):YAG laser sclerostomy with iridectomy in Dutch cross rabbits. *Lasers Surg. Med.*, 13:559-564, 1993.

15. Forster D, Rao N, **Hill RA**, Heuer DK, Nguyen Q, Baerveldt G and Minckler DS. Incidence and management of glaucoma in Vogt-Koyanaga-Harada Syndrome. *Ophthalmology*, 100: 613-618, 1993.

16. Coleman AL, **Hill RA**, Wilson R, Choplin N, Ronit-Kotas Neumann, Tam M, Bacharach J, Panek WC. Initial Clinical Experience With the Ahmed Glaucoma Valve Implant. *American Journal of Ophthalmology*, 120: (1) 23-31. July, 1995

17. Coleman A, **Hill R**, Wilson M, Choplin N, Kotas-Neumann, Tam N, Bacharach J and Panek W. Preliminary results of the Ahmed valve study group. *Am. J. Ophthalmol.*, 120:23-31, 1995.

18. **Hill RA**, Esterowitz T, Ryan J, Yashiro H, Kim J, Liaw L-H, Krasieva T, Nelson JS and Berns MW. Photodynamic therapy (PDT) of the ciliary body with photofrin® II (PII) and chloroaluminum sulfonated phthalocyanine (CASPC) in Dutch cross rabbits. *Lasers Surg. Med.*, 17(2): 166-171, 1995.

19. **Hill RA**, Reddi S, Kenney M, Ryan J, Liaw L-H, Garret J, Shirk J, Cheng G, Krasieva T, and Berns M. Photodynamic therapy of ocular melanoma with Bis silicon 2,3 naphthalocyanine (SINc) in a rabbit model. *Invest. Ophthalmol. Vis. Sci.*, 36(12): 2476-2481, 1995.

20. **Hill RA**, Laser Refractive Surgery: A Review And Current Status. *Optical Engineering*, March, 1995
21. **Hill RA**, Garret J, Reddi S, Esterowitz T, Liaw L-H, Ryan J, Shirk J, Kenney M, Shimuzu S, and Berns M. Photodynamic therapy of the ciliary body with silicon naphthalocyanine (SINc) in rabbits. *Lasers Surg. Med.*, 18(1): 86-91, 1996.
22. Biner DU, **Hill RA**, Kaufman H, et al. Timolol hemihydrate vs. timolol maleate in ocular hypertension and open angle glaucoma. *Am. J. Ophthalmol.*, 121:521-528, 1996.
23. **Hill RA**, Crean DH, Doiron DR, McDonald TJ, Liaw LH, Ghosheh F, Hamilton A, and Berns, MW. Photodynamic therapy (PDT) for antifibrosis in a rabbit model of filtration surgery. *Ophthalmic Surg Lasers*, Jul; 28(7):574-81, 1997.
24. **Hill RA**, Crean DH, Doiron, DR, Ghosheh F, Ryan JA, Kelly H, Booth M, Liaw LH, Newman L, Berns MW. Photodynamic therapy (PDT) of the ciliary body with tin ethyl etiopurpurin (SnEt2) and tin octa ethyl benzochlorin (SnOB) in pigmented rabbits. *Ophthalmic Surg and Lasers Nov*; 28(11):948-53, 1997.
25. **Hill RA**, New Agents for the Treatment of Glaucoma. *West J Med*. 1997 Feb;166(2):140. 1997.
26. **Hill RA**, Ren Q, Nguyen D, Liaw L-H, Kim and Berns MA. Free electron laser tissue ablation of ocular tissues. *Lasers in Medical Science*, 13:219-226, 1998.
27. Huang MC, Netland PA, Coleman AL, Siegner SW, Moster MR and **Hill RA**. Intermediate-term Clinical Experience with the Ahmed Glaucoma Valve Implant. *Am J Ophthalmol*, 127:1, 27-33, 1999.
28. Topouzis F, Coleman AL, Choplin N, Bethlem MM, **Hill RA**, Yu F, Panek WC, and Wilson MR. Follow-up of the Original Cohort With the Ahmed Glaucoma Valve Implant. *Am J Ophthalmol* 128:198-204, 1999.
29. Spiegel D, Kobuch K, **Hill RA**, Gross RL, Schlemm's canal implant: a new method to lower intraocular pressure in patients with POAG. *Ophthalmic Surg Lasers*,;30(6):492-4. June 1999
30. **Hill RA**, Pirouzian A and Liaw L-H. Pathophysiology and Prophylaxis of Late Ahmed Glaucoma Valve™ Occlusion. *AJO*, 126;5:, 608-612, May 2000.
31. Spiegel D, Kobuch K, **Hill RA**, Gross RL. Implant in Schlemm's canal. A new method for regulating intraocular pressure in patients with primary open-angle glaucoma? *Ophthalmologie* 2001 Jan;98(1):94-6
32. **Hill RA**. Tenon's traction sutures: An aid for trabeculectomy and aqueous drainage device implantation. *J Glaucoma*. 2002 Dec;11(6):529-30.
33. **Hill RA**, Ohanesian R, Voskanyan L, Malayan A, The Armenian Eye Care Project: Surgical Outcomes of Complicated Pediatric Glaucoma. *British Journal of Ophthalmology*. 2003;87:673-676.
34. **Hill R**, Brown R, Heuer D. "Laser Suture Lysis for Non-valved Aqueous Drainage Implants. *J Glaucoma*. 2003 Aug;12(4):390-1.
35. **Hill R**. A Single Peritomy Technique for Severe Aqueous Misdirection. Submitted to *British Journal of Ophthalmology*.
36. **Hill R** and Shamie N. A Simplified Technique for Drainage Tube Repair or Aqueous Drainage Device Exchange. Submitted to *J of Glaucoma*.
37. **Hill R**. Conjunctivopexy: A filtering bleb modification technique. Manuscript under revision.

38. Lama A. Al-Aswad, M.D., Peter A. Netland, M.D., PhD, A. Robert Bellows, M.D., Taly Ajdelsztajn, M.D., Resham A. Wadhvani, M.D., Ghada Ataher, M.D., Richard Hill, M.D. Clinical Experience With The Double-Plate Ahmed Glaucoma Valve. Manuscript in press AJO, 2005.

Publications: Letters

1. **Hill RA** and Johnson LN. Perimetric findings in functional disorders using automated techniques. *Ophthalmology* 95 (12):1005, 1988.
2. Johnson LN and **Hill RA**: Calculating mean threshold sensitivity in automated perimetry. *Ophthalmology*, 96:570-571, 1989.

Publications: Book Chapters

1. **Hill RA**, Minckler DS, Lee MB, Heuer DK, Baerveldt G, Martone JF: Medical management of cycloplegic-induced intraocular pressure spikes. In: *Pharmakotherapie am Auge*. E. Gramer and H. Kampik. Springer-Verlag, Berlin, Heidelberg, 1992, pp. 116-124.
2. **Hill RA**. Laser Surgery in the Treatment of Glaucoma. In "Atlas of Glaucoma" edited by Choplin and Lundy. Martin Dunitz Publishers, 1998.
3. **Hill RA**, Chapter 12, "Non-incisional Surgery for Glaucoma". In *Glaucoma for Residents and Clinicians*" edited by Joseph Sassani, M.D. Slack Publications, 1999.
4. **Hill R** and Baerveldt G. Aqueous Drainage Implants. Chapter 22 in Coleman Ed. Martin Dunitz publishers, 2004.
5. **Hill RA**: "Laser Surgery In the Treatment of Glaucoma," in *Atlas of Glaucoma*, Edited by Choplin & Lundy, Martin Dunitz, publisher, 2007. Chapter re-written.

Publications: Invited / Non-Peer Reviewed

1. **Hill RA**, Minckler DS, Lee M, Heuer DK, Baerveldt G and Martone JF. Medical management of cycloplegic-induced intraocular pressure spikes. In: Gramer/Kampik (Eds.) *Pharmakotherapie am Auge*, Springer-Verlag, 116-120, 1992.

2.

Ren Q, Keates RH, **Hill RA** and Berns MA. Laser refractive surgery - A review and current status. *J. Opt. Eng.*, 34(3): 642-660, 1995

3.

Invited editorial, Evolution and Evidenced Based Medicine. *Br J Ophthalmol*. 2003, Aug;87(8).

Publications: Newspaper Articles

1. Lori Basheda, O.C. Doctors Mission: To Restore the Sight of Armenia's Wounded. *Orange County Register*, Pages 1 & 8, July 1, 1996.

2. John Hughes, The eyes of Armenia. Orange County Register, Page 1 and Accent Section, December 8, 1996.

Publications: Conference Proceedings

1. **Hill RA**, Nelson S, Stern D, Lesiecki M and Berns M. New applications for pulsed and CW lasers in the treatment of glaucoma. Invited paper, IEEE Lasers and Electro-Optics Society 1992 Annual Meeting, November 16-19, Boston, Massachusetts. Conference Proceedings, p. 658 - 6599.
2. **Hill R**. Erbium (Er):YAG lasers in the surgical treatment of open angle glaucoma. Invited paper, IEEE Lasers and Electro-Optics Society 1993 Annual Meeting, November 16-19 San Jose, California. Conference Proceedings, p. 256-7.
3. Ren Q, **Hill RA**, Liaw L-H, Kim J, Keates RH and Berns M. Free-electron laser ablation of cornea and sclera: A comparative study. International Optical Engineering Society Annual Meeting (SPIE); Ophthalmic Technologies V; Conference 2393, February, 4-5. 1995; San Jose California. Paper presentation and published proceedings.

Publications: Abstracts

1. **Hill RA** and Johnson LN. Correlation of afferent pupillary defect with visual field loss on automated perimetry. Abstract and poster, American Academy of Ophthalmology Annual Meeting. Dallas, Texas, November 8-12, 1987. Ophthalmology (Suppl): 94(10): 138, 1987.
2. Stock EL, **Hill RA**, Boyle-Vara S and Roth SI. Eosinophils and mast cell homogeneity of the guinea pig conjunctiva and ileum. Abstract and poster, Annual Meeting of the United States and Canadian Academy of Pathology, Inc., Lab. Invest. 58: 88A, 1988.
3. **Hill RA** and Johnson LN. Correlation of afferent pupillary defect with visual field loss on automated perimetry (Part II). Abstract and poster, International Perimetric Society/Neuro-Ophthalmology Congress, Vancouver, British Columbia, May 8-12, 1988.
4. **Hill RA**, Aminlari A, Sassani JW, and Michalski M. Treatment of post-surgical over-filtration with a symblepharon ring. Abstract and poster, American Academy of Ophthalmology Annual Meeting. Las Vegas, Nevada, October 8-12, 1988. Ophthalmology (Suppl): 94(10): 165, 1988.
5. **Hill RA** and Johnson LN. Correlation of afferent pupillary defect with visual field loss on automated perimetry (Part II). Abstract and poster, American Academy of Ophthalmology Annual Meeting, Las Vegas, Nevada, October 8-12, 1988. Ophthalmology (Suppl): 94(10): 172, 1988.
6. **Hill RA**, Özler SA, Profeta GA, Baerveldt G, and Berns MW. Laser trabecular ablation (LTA). Presented as an abstract and poster at the Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. 31 (Suppl): 1674, 1990.
7. Özler SA, **Hill RA**, Andrews JJ, Baerveldt G, Heuer DK and Berns MW. Infrared laser sclerostomies. Presented as an abstract and poster at the Annual meeting of the Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. 31 (Suppl): 1675, 1990.
8. **Hill RA**, Heuer DK, Baerveldt G, Minckler DS and Martone JF. Molteno implantation for glaucomas in young patients. Paper, Annual Meeting of the American Academy of Ophthalmology, Atlanta, Georgia, October 28-November 1, 1990. Ophthalmology (Suppl): 97(9): 126, 1990.
9. Forster D, Rao N, **Hill RA**, Heuer DK, Nguyen Q, Baerveldt G and Minckler DS. Glaucoma in Vogt-Koyanaga-Harada Syndrome. Abstract and poster, Annual Meeting of the American Academy of

Ophthalmology, Atlanta, Georgia, October 28-November 1, 1990. Ophthalmology (Suppl): 97(9): 143, 1990.

10. **Hill RA**, Özler SA, Baerveldt G, Viscardi JJ, Keates RH, Lee M, Harrington, JA and Berns MW. Ab-Interno neodymium:YAG versus erbium:YAG sclerostomies in a rabbit model. Abstract and poster, Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. 32 (Suppl) 388, 1991.

11. **Hill RA**, Nguyen Q, Baerveldt G, Forster D, Rao N, Heuer DK and Minckler, DS. Trabeculectomy and Molteno implantation in glaucomas associated with uveitis. Abstract and poster, Annual Meeting of the American Academy of Ophthalmology, Anaheim, California, October 13-17, 1991. Ophthalmology (Suppl): 98(8): 108, 1991.

12. Le M, **Hill RA**, Yashiro H, Constan C, Stern D, Lesiecki M, Brown L and Berns M. Ab-Interno Erbium(Er):YAG laser sclerostomy with iridectomy in Dutch cross rabbits. Abstract and poster, Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) 33(4): 2867, 1992.

13. **Hill RA**, Lesiecki M, Hsia J, Stern D, Brown L, Baerveldt G and Berns M. Erbium:YAG laser trabecular ablation in primates. Abstract and poster, Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) 33(4):1638, 1992.

14. Lesiecki M, **Hill RA**, Stern D, Hsia J and Berns M. The effects of pulse width on laser trabecular ablation. Abstract and poster, Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) 33(4): 2868, 1992.

15. **Hill RA**, Esterowitz T, Ryan J, Yashiro J, Shirk J, Kenney M, Shimuzu S, Liaw L-H, and Tromberg BJ. Photodynamic therapy of the ciliary body with silicon naphthalocyanine (SINc) in rabbits. Abstract and paper, Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) 34(4): 1796, 1993.

16. Esterowitz T, **Hill RA**, Ryan J, Yashiro H, Kim J, Treadway A, Krasieva T, Nelson JS and Berns MW. Photodynamic therapy (PDT) of the ciliary body with photofrin® II (PII) and chloroaluminum sulfonated phthalocyanine (CASPC) in Dutch cross rabbits. Abstract and poster, Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO). Invest Ophthalmol. Vis. Sci. (Suppl) 34(4):188, 1993.

17. Dahl M, **Hill RA**, Ryan J, Lesiecki M, Liaw L-H and Berns MW. Ab-Externo erbium (Er):YAG laser sclerostomies with 200- 300- and 400-µm fiber optics in rabbits. Abstract and poster, Annual Meeting of the Association for Researchers in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) 34(4): 174, 1993.

18. Beckman LR, Baerveldt G, Beckman H, **Hill RA** and Simmons JR. Erbium:YAG sclerostomy in humans - An update. Abstract and paper, Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) 34(4): 1806, 1993.

19. **Hill RA**, Garrett J, Reddi S, Esterowitz T, Ryan J, Shirk J, Kenney M, Shimuzu S and Berns W. Photodynamic therapy (PDT) of the ciliary body with silicon naphthalocyanine (SINc), Photofrin II® and chloroaluminum sulfonated phthalocyanine (CASPC) in rabbits. Poster, Annual Meeting of the American College of Veterinary Ophthalmology, Scottsdale Arizona, 1993.

20. Garret J, Reddi S, Ryan J, Kim J, Shirk J, Kenney M, Krasieva T, Tromberg B, Berns M and **Hill RA**. Photodynamic therapy of experimental ocular melanoma with silicon naphthalocyanine (SINc) in rabbits. Abstract and paper, Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) 35(4): 4013, 1994.

21. Tam N, Choplin N, Coleman A, **Hill RA**, Wilson M and Panek W. Preliminary results of the Ahmed glaucoma valve implant clinical trial. Abstract and paper, Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) 35(4): 3048, 1994.

22. **Hill RA**, Crean D, Doiron D, Liaw L-H, Hamilton A and Berns M. Photodynamic therapy (PDT) for antifibrosis in a rabbit model of filtration surgery. Paper and abstract, Annual Meeting of the Association

for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) 36(4): 4017, 1995.

23. Chriqui R, **Hill RA**, Liaw L-H, Hamilton A, Ahmed M, Fite R and Berns M. Histologic comparison of Ahmed valve™ filtering capsules vs. Molteno™ filtering capsules in rabbits. Abstract, Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) 36(4): 1622, 1995.

24. Liaw L-H, Ren Q, **Hill RA**, Keates R, Nguyen D, Kim J and Berns M. Free electron laser ablation of trabecular meshwork at 5.3 and 6.0 μm. Abstract, Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) 36(4): 2582, 1995.

25. Ren Q, **Hill RA**, Keates R, Nguyen D, Liaw L-H, Kim J and Berns M. Free electron laser tissue ablation of human sclera and cornea at 5.3 and 6.0 μm. Abstract, Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) 36(4): 4567, 1995.

26. Rowe S, **Hill RA**, Liaw L-H, Kim J, Weldy S, Hamilton A and Berns M. Histologic comparison of a frequency doubled, short pulse, high repetition rate Nd:YAG laser (Ophthalas® 532 SL) vs a CW argon laser for trabeculoplasty in primates. Abstract, Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) 36(4): 2603, 1995.

27. Coleman A, **Hill RA**, Tam N, Choplin N, Wilson M and Panek W. Updated results of the Ahmed glaucoma valve implant clinical trial. Abstract, Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) 36(4): 4540, 1995.

28. Timolol Hemihydrate Study Group. Abstract, Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) 36(4): 3048, 1995.

29. Berns M, Liaw L, Ren Q, Kim J, **Hill RA**, and Keates, RH. A histological technique to study corneal wound healing after photo-refractive keratectomy. Abstract, Annual Meeting of Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) 36(4): 3256, 1995.

30. **Hill RA**, Crean D, Doiron D, Liaw L-H, Hamilton A and Berns B. Photodynamic therapy with tin ethyl etiopurpurin as an alternative antifibrotic treatment following glaucoma filtering surgery. American Society for Photobiology, Annual Meeting, June 17-22, 1995.

31. **Hill RA**, Ghosheh F, Kim J, Crean D, Doiron, D, Kelly H, Booth M, Krasieva T, Liaw L-H and Berns MW. Photodynamic therapy (PDT) of the ciliary body with tin ethyl etiopurpurin (SnEt2) in Dutch cross rabbits. Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) 37(3): 1898, 1996.

32. Ryan J, **Hill RA**, Ghosheh F, Kim J, Crean D, Doiron D, Kelly H, Booth M, Liaw L-H, Newman L and Berns MW. Photodynamic therapy (PDT) of the ciliary body with tin octa ethyl benzochlorin (SnOB) in Dutch cross rabbits. Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) 37(3): 1207, 1996.

33. **Hill RA**, Crean D, Doiron D, Krasieva T, McDonald T, Liaw L-H, Ghosheh F, Hamilton A and Berns M. Photodynamic cyclodestruction in pigmented rabbits using tin ethyl etiopurpurin. Sixth Biennial Meeting of the International Photodynamic Association. Melbourne Australia March 10-14, 1996.

34. **Hill RA**, Crean D, Doiron D, Krasieva T, McDonald T, Liaw L-H, Ghosheh F, Hamilton A and Berns M. Additional pre-clinical experience with photodynamic therapy (PDT) for antifibrosis in a rabbit model of filtration surgery. Abstract at the Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) (38)(4): 1233, 1997.

35. **Hill RA**, Finerman G, Ip K, Reilly T, Richard A, Fair RA, Fox M, A visual field screening device for glaucoma. Abstract and poster, American Academy of Ophthalmology, Annual Meeting, Ophthalmology (Suppl): 104(9A): 172, 1997.

36.

Netland PA, Huang MC, Coleman AL, Moster MR and **Hill RA**, Clinical Experience with the Ahmed Glaucoma Valve Implant. Abstract of the annual meeting of the Association for Research in Vision and Ophthalmology (ARVO). Invest. Ophthalmol. Vis. Sci. (Suppl) (394)(4): 2144-B1, 1998.

37. Abstract and poster, International Glaucoma Society Meeting, Barcelona, Spain, 2003. Initial Clinical Feasibility Experience with a new Trabecular Bypass Micro Stent. Felix Gil-Carrasco, MD, Elizabeth Salinas-VanOrman, MD and **Richard A. Hill, MD**

38. Abstract and paper, International Glaucoma Society Meeting, Barcelona, Spain, 2003. Initial Clinical Feasibility Experience with the Glaukos Trabecular Bypass Micro Stent. Detlev Spiegel, MD, Wolfgang, MD and **Richard A. Hill, MD**.

39. Abstract and poster, European Glaucoma Society Florence, Italy - May 30 - June 3, 2004. Early clinical results for the Glaukos Trabecular Bypass Micro Stent. Winner of the Silver Plate Award (Best Poster).

40. Spiegel D, Wetzel W, Sturmer J, Hoh H, Neuhann T, Garcia-Sanchez J, **Hill RA**, Nicksch B, Co-existent open-angle glaucoma and cataract: Treatment by cataract surgery and the iStent Trabecular Bypass Micro Stent. Abstract and poster of the annual meeting of the Association for Research in Vision and Ophthalmology (ARVO), 2005.

41.

Lama A. Al Aswald, Peter A. Netland, Robert Bellows, Taly Ajdelsztajn, Resham A. Wadhvani, Ghada Altaher and Richard A. Hill. Clinical experience with the double plate Ahmed Glaucoma Valve. Paper and poster (65) at the annual meeting of the American Glaucoma Society, March 2-6, 2006, Charleston South Carolina.

42. Ohanesian, RV, Hill RA, Hovanesian JA, Negazarian N, and Malayan AS. Prevalence of common eye disease in Armenia. Abstract and Poster (534), Annual Meeting of the American Academy of Ophthalmology, Las Vegas, Nevada, November 11-14, 2006.

Presentations/Lectures.

1. Granulated cells in the guinea pig conjunctiva. Northwestern University Eye Research Symposium. Chicago, Illinois, June 11, 1985.

2. Correlation of afferent pupillary defect with visual field loss on automated perimetry. Pennsylvania Academy of Ophthalmology and Otolaryngology Annual Meeting. Bedford, Pennsylvania, June 11-14, 1987.

3. Correlation of afferent pupillary defect with visual field loss on automated perimetry. Hershey Surgical Society. Hershey, Pennsylvania, June 26, 1987.

4. Correlation of afferent pupillary defect with visual field loss on automated perimetry; Part I. The Pennsylvania State University Annual Neuro-ophthalmology Conference. Hershey, Pennsylvania, October 7, 1987.

5. Lasers in ophthalmology. Certified Ophthalmic Medical Technician Review Course. Doheny Eye Institute, May 23, 1990. One hour CME.

6. Glaucoma for family practice. Family Practice Grand Rounds; UCI Medical Center. August 5, 1990. One hour CME.

7. Iridocorneal endothelial syndrome. Ophthalmology Grand Rounds, Long Beach Memorial Hospital, October 24, 1990.

8. Laser trabecular ablation: Early primate results. Southern California Glaucoma Society Meeting, October 24, 1990.

9. Infrared lasers in glaucoma surgery. Santa Barbara Eye Society Annual Meeting, February 21, 1991. One hour CME.
10. New advances in laser surgery for glaucoma. Loma Linda University Annual Postgraduate Medical Conference. February 24, 1991.
11. Medical management of post cycloplegic intraocular pressure spikes. Annual Doheny Alumni Conference, May 31, 1991.
12. Glaucoma. Sixth Annual Symposium on Aging, University of California, Irvine, May 11, 1991.
13. Established and upcoming laser treatment modalities for glaucoma. American Society of Ophthalmic Registered Nurses laser update seminar, September 7, 1991.
14. The effects of pulse width on laser trabecular ablation. Annual Beckman Laser Institute Research Seminar September 5, 1991.
15. Congenital glaucoma. Pediatric Grand Rounds, UCI Medical Center, October 10, 1991. One hour CME.
16. Aqueous drainage devices - past, present and future. Saint Joseph Hospital Continuing Medical Education Conference for Ophthalmology. November 18, 1991. One hour CME.
17. Investigational uses of lasers in the treatment of glaucoma. American College of Surgeons Annual Meeting, Indian Wells, Palms Springs, CA. January 17-19, 1992.
18. Veterinary ophthalmic applications of lasers for the treatment of glaucoma. Strategic Defense Initiative-Free Electron Laser Grants Veterinary Consortium Symposium, Beckman Laser Institute and Medical Clinic February 6-7, 1992.
19. Investigational uses of lasers and aqueous drainage implants in the treatment of glaucoma. Western Medical Center, February 12, 1992. One hour CME.
20. The future of laser and medical management of glaucoma. Ophthalmology Education Department Meeting. Long Beach Memorial Hospital. February 18, 1992. One hour CME.
21. Clinical experience with Baerveldt 350 mm and Molteno implants in complicated glaucoma. 1992 Annual Residents Day Presentation; James Holliday and Richard A. Hill.
22. The future of lasers in the treatment of glaucoma. Naval Hospital San Diego, Department of Ophthalmology, Distinguished Lecturer Series, June 22, 1992.
23. New applications for pulsed and CW lasers in the treatment of glaucoma. IEEE Lasers and Electro-Optics Society 1992 Annual Meeting, Boston MA. Invited speaker, November 16-19, 1992.
24. Laser treatment of glaucoma. University Speakers Bureau, Sunday Discussion Club of Leisure World. June 28, 1992.
25. Laser clinical trials for the treatment of glaucoma at the University of California, Irvine. University Speakers Bureau, Kiwanis Club of Santa Ana, October 21, 1992.
26. New lasers for the treatment of glaucoma. Research Study Club of Los Angeles. 62nd Annual Mid-Winter Clinical Conference, February 19-21, 1993.
27. Laser sclerostomies, trabecular ablation and photodynamic therapy for the treatment of glaucoma. Grand Rounds, University of California, San Diego, June 7, 1993

- 28.Trabeculectomy. Vision Quest 1993; "Advances in Ophthalmology in the 90's." Allergan invited "CORE" speaker, October 1-2, 1993.
- 29.Erbium (Er):YAG lasers in the surgical treatment of open angle glaucoma. Invited paper, IEEE Lasers and Electro-Optics Society 1993 Annual Meeting.
- 30.Update on laser applications for the treatment of glaucoma and results of ongoing clinical trials. Western Medical Center, January 21, 1994. One Hour CME.
- 31.Recent advances in the treatment of glaucoma. Western Medical Center; January 21, 1994. Two hours CME.
- 32.New applications for lasers in the diagnosis and treatment of glaucoma. Invited speaker. Beckman Laser Institute and Medical Clinic, July 21, 1994.
- 33.Visiting Professor and keynote speaker at the Il Pedro Moacyr de Aquiar Symposium: Advances in Glaucoma: 1. Aqueous drainage devices; 2. Treatment of congenital glaucoma; 3. The glaucoma triple procedure; 4. New pharmaceuticals for the treatment of glaucoma; and 5. Trabeculectomy with antimetabolites. Rio de Janeiro, Brazil, March 22-23, 1996.
- 34.Invited speaker: New Applications for Photodynamic Therapy in the Treatment of Glaucoma. Tenth Annual Meeting IEEE Lasers and Electro-Optics Society, November 10-13, 1997. San Francisco, California.
- 35.Ocular Drug & Surgical Update Meeting. Update: New Developments in the Laser Treatment of Glaucoma. Ritz-Carlton Laguna Niguel, California. June 13-14, 1998.
36. Invited Speaker: Ho Sin Sool (self-defense) for the Glaucoma Practitioner. Indian Health Service, Flagstaff, Arizona. March 18, 1999.
- 37.Invited Speaker: Ho Sin Sool (self-defense) for the Glaucoma Practitioner. Alta Society, Sacramento, California, April 2, 1999.
38. Invited Speaker: Glaucoma: Epidemiology, Pathophysiology, Diagnosis and Medical Update. National Rural Health Association. 22nd Annual National Conference in San Diego, California. Sheraton San Diego Hotel & Marina. May 27-29, 1999.
- 39.Invited Presenter and Consultant: National Teleconferencing Series to Indian Nations on Glaucoma. In cooperation with the United States Public Health Service/Indian Health Service.
- 40.Research Study Club: Glaucoma Laser Trabecular Ablation, Universal City & Towers, Universal City, CA. January 30, 2000.
- 41.University of California, Irvine: Invited Speaker: Non Penetrating Trabeculectomy CME course. January 15, 2000
- 42.Doheney Eye Institute: Pearls and Pitfalls of the Ahmed Glaucoma Valve. February 19, 2000
- 43.IEEE Lasers and Electro-Optics Society, Thirteenth Annual Meeting, Boise Modified Consultant Panel. Boise, ID, May 11, 2000.
- 44.Pasadena Modified Consultant Panel. Pasadena, CA. June 15, 2000.
- 45.Lumigan Consensus Meeting. Laguna Beach, CA Feb. 8-10, 2001
- 46.Phoenix Ophthalmic Society. Perceptions and Misconceptions Concerning Glaucoma Medications and Possible Breakthrough Devices for Aqueous Shunts. Scottsdale AZ. March 22, 2001
47. Dallas Eye Society. Lumigan presentation. Dallas, TX. March 29 - 30, 2001.
48. Visiting Professor Invited Speaker, Armenian Congress of Ophthalmology 2001.

49. Jules Stein Eye Institute (UCLA). Visiting Professor January 19, 2003. Trabecular Bypass Surgery – A New Glaucoma Surgery.

50. Invited speaker Arizona Eye Society 2/8/4. New frontiers in Glaucoma therapy.