



Optical Express

Dr. Steve Schallhorn

MD
Ophthalmic Surgeon

Mr. Steve Schallhorn is internationally acknowledged as one of the most respected refractive surgeons in the world. He is the Chairman of the Optical Express International Medical Advisory Board (IMAB).

In 2007, Mr. Schallhorn retired as a Captain from the United States Navy. During his naval career he was the Director of Corneal Service and Refractive Surgery at the Naval Medical Center San Diego, created, initiated and directed the Department of Defense refractive surgery program and served as the first United States Navy Refractive Surgery Program Manager. He was the primary investigator in the sentinel studies which evaluated visual recovery and performance characteristic of PRK and LASIK before excimer lasers were FDA approved. He was the first surgeon in the United States Department of Defense to perform LASIK and PRK procedures and implant phakic intraocular lenses.

Mr. Schallhorn is recognized by his peers as an expert in refractive surgery and anterior segment surgery. He is one of only a small group of excimer laser instructors in the United States. A gifted public speaker, he lectures regularly at ophthalmic meetings and educational conferences worldwide and is a visiting professor of medicine at Harvard, USC, UCSF, and Baylor Universities.

Mr. Schallhorn serves as a consultant to National Aeronautics and Space Administration (NASA) the North Atlantic Treaty Organization (NATO), the US Bureau of Alcohol, Tobacco and Firearms (ATF), Federal Bureau of Investigation (FBI), National Highway Traffic Safety Administration (NHTSA), and Federal Aviation Administration (FAA). He is an advisor for refractive surgery to Australia, Canada, France, Great Britain, Greece, Japan, New Zealand, Singapore, Taiwan and Turkey. He also has worked with all five branches of the United States Armed Forces.

An avid researcher, Mr. Schallhorn has served as a clinical investigator on numerous Food and Drug Administration (FDA) clinical trials over the past 25-years. He has presented more than 200 clinical papers, made countless presentations throughout America, Europe, and Asia, and is the author of numerous academic journal publications and papers.

Before entering medical school, Mr. Schallhorn had a successful career as a Naval Aviator and TOP GUN instructor in the US Navy. While at TOP GUN, film screenwriter Jack Epps, Jr. interviewed him to get background for the movie *Top Gun* and, although the movie is a fictitious portrayal of Naval Aviation, some of the events in the movie were based on stories relayed by Mr. Schallhorn.

Mr. Schallhorn's naval aviation background carried over into his medical career. While at medical school he instituted and directed a multi-year project that resulted in enhanced combat survivability of aircrew through the Naval Aerospace Medical Research Laboratory (NAMRL). In 1993, it was this same aviation perspective that gave Mr. Schallhorn the insight to research excimer laser surgery, then in its pre-FDA approval stage. Being a naval aviator, he understood the need for perfect vision. He recognized the

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potential this infant science had to offer to those whose occupations demanded precise vision, such as aviation. He also recognized that there were occupations where accurate vision was needed but the work environment was not favorable to glasses or contact lenses. With this knowledge, Mr. Schallhorn has spent his career in pursuit of safer, more effective and more precise methods of vision correction.

Society Memberships

- Alpha Omega Alpha Medical Honor Society
- Physics Honors Society
- American Society of Cataract and Refractive Surgery
- American Board of Ophthalmology - certified November 1994, recertified 2004
- American Academy of Ophthalmology - 'Fellow'
- American Academy of Ophthalmology, Refractive Surgery Interest Group - 'Executive Committee Member'
- American Academy of Ophthalmology, Refractive Surgery Ophthalmic Technology Assessment Committee - 'Chairman'
- American Academy of Ophthalmology, Knowledge Assessment Committee Refractive Surgery - 'Chairman'
- International Society of Refractive Surgeons
- European Society of Cataract and Refractive Surgery

Achievements, Awards, and Honors

- Physics scholar, 1973-1976, top physics student at Colorado State University.
- Designated a Naval Aviator with the highest grade recorded in training squadron.
- Qualified as F-14A, A-4 and F-5 aircraft test pilot with over 2,000 flight hours.
- Winner of the 1981 annual F-14 fighter derby with the highest grade ever recorded in a scored air-to-air combat exercise.
- Instrumental in winning the coveted "Mutha" and safety award for Fighter Squadron Two, 1981-1982.
- Selected as one of the ten best carrier pilots on-board USS Ranger with over 300 arrested landings including over 100 night landings.
- Selected among hundreds of highly qualified naval officers to serve as combat instructor at the Navy Fighter Weapons School (TOPGUN).
- A top lieutenant in competitive fitness reports at TOPGUN among highly screened peers while serving as training and safety officer.
- Selected from below promotion zone to the rank of Commander, USN.
- Instituted and directed the 'visibility of air-to-air missiles' project through the Naval Aerospace Medical Research Laboratory (NAMRL). This multi-year effort resulted in enhanced combat survivability of aircrew.
- Selected in junior year of medical school for Alpha Omega Alpha honors society.
- Graduated from medical school with honors, ranking in the top 5% of the class.
- Selected as 'Fellow of the year' (1995/6) at the Doheny Eye Institute, University of Southern California.
- Instituted a comprehensive review of medical standards for operators of Landing Craft Air Cushion

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Vehicles (LCAC). Performance standards were established, cognizant medical oversight was instituted (NAOMI), and the SEAOPS manual was revised as a result.

- Associate investigator in the performance enhancement project for undersea warfare specialists with the Naval Health Research Center.
- Scientific reviewer for ophthalmology peer review journals; Ophthalmology, Journal of Cataract and Refractive Surgery, Investigative Ophthalmology and Visual Sciences.
- Principle investigator in Navy research on photorefractive keratectomy and LASIK.
- Acknowledged expert in anterior segment surgery. Provided tertiary level care for active duty forces in the western hemisphere including penetrating keratoplasty, anterior segment reconstruction, and complicated cataract procedures. Many of these procedures involved repair of complex penetrating wounds. Highly sought by ophthalmology residents for teaching.
- First surgeon in US Department of Defense to perform PRK, LASIK, and implant phakic intraocular lenses.
- Acknowledged expert in refractive surgery. One of only a small group of excimer laser instructors in the US. Numerous requests to conduct nationwide training courses. Routinely receives consultation requests regarding refractive surgery from governmental and civilian organizations (NATO/Canadian/Australian military medical organizations, police and fire departments, major airlines, universities, etc).
- Established and directed the first military excimer laser and refractive surgery center at the Naval Medical Center, San Diego, CA from 2005-2007. Established six other Navy Refractive Surgery Centers at geographic locations within the U.S.
- Selected to become the first Navy Refractive Surgery Program Director.
- Chairman of the Joint Chiefs of Staff Award for Excellence in Military Medicine 'Best Doctor in the Military', 1997. The Chairman of the Joint Chiefs of Staff (General Shalikashvili) and Zachary Fisher presented the award on 12 August, 1997. It included a \$50,000 research grant.
- Lans Distinguished Refractive Surgeon award presented by the International Society of Refractive Surgeons and the American Academy of Ophthalmology, October 2004 in New Orleans, Louisiana.
- Selected as one of six executive steering committee members of the American Academy of Ophthalmology Refractive Surgery Interest Group
- Twice recipient of The Navy Legion of Merit, the highest non-combat medal in the military, awarded for performance of meritorious service to the United States for his work in refractive surgery
- Recipient of the Navy Commendation, Achievement, Humanitarian, and Expeditionary medals.

Presentations and Abstracts

- "Does the mesopic pupil predict who will have symptoms after LASIK?" at the annual meeting of the European Society of Cataract and Refractive Surgeons annual meeting, Stockholm, Sweden, September 2007.
- "Does advanced surface ablation produce superior clinical outcomes to sub-Bowman's keratomileusis?" at the annual meeting of the European Society of Cataract and Refractive Surgeons annual meeting, Stockholm, Sweden, September 2007.
- "How the Femtosecond Laser has Changed Refractive Surgery in the US Navy" at the ISRS/AAO Expanding Horizons in Refractive and Cataract Surgery meeting, Beijing, China, May 2007.
- "Targeting Higher-Order Aberrations: What Should Be Our Goal?" at the ISRS/AAO Expanding Horizons in Refractive and Cataract Surgery meeting, Beijing, China, May 2007.

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- "Customized laser surgery and quality of vision - What we have learned in aviators" at the annual DOC meeting, Nuremberg, Germany, May, 2007.
- "Can we achieve supernormal vision?" at the annual DOC meeting, Nuremberg, Germany, May 2007.
- "Refractive Surgery in the Naval Aviator" at the annual meeting of the American Society of Cataract and Refractive Surgeons, San Diego, CA, April 2007.
- "What is the ideal spherical aberration to optimize visual outcome?" at the annual meeting of the American Society of Cataract and Refractive Surgeons, San Diego, CA, April 2007.
- "Wavefront guided versus conventional surface ablation" at the annual meeting of the American Society of Cataract and Refractive Surgeons, San Diego, CA, April 2007.
- "Results of the Navy-Sponsored FDA IDE Study of Wavefront-guided surface ablation" at the annual meeting of the American Society of Cataract and Refractive Surgeons, San Diego, CA, April 2007.
- "History of refractive surgery in the military" at the first annual International Military Ophthalmologists meeting, San Antonio, TX, February 2007.
- "Refractive surgery in Naval aviation" at the Royal Hawaiian Eye meeting, Kauai, HI, January 2007.
- "Comparison of visual outcomes of femtosecond and mechanical keratomes" at the American Academy of Ophthalmology annual meeting, Las Vegas, NV, November, 2006.
- "Evidence that wavefront guided surgery is better" at the International Society of Refractive Surgeons annual meeting, Las Vegas, NV, November 2006.
- "Differences in dry eye complaints after LASIK and surface ablation" at the International Society of Refractive Surgeons annual meeting, Las Vegas, NV, November 2006.
- "Clinicians guide to wavefront technology" at the Wills Eye Hospital, visiting professor, Philadelphia, PA, October, 2006
- "Refractive Surgery in Aviators: Can we achieve supernormal vision?" keynote address at the AAO/ISRS symposium of the European Society of Cataract and Refractive Surgeons annual meeting, London, UK, September 2006.
- "Mechanical keratomes versus femtosecond flap creation for LASIK" at the annual meeting of the European Society of Cataract and Refractive Surgeons annual meeting, London, UK, September 2006.
- "Aviation refractive surgery: past, present, and future" at the 21st Congress of the Asian Pacific Academy of Ophthalmology, Singapore, June, 2006.
- "Wavefront guided PRK" at the 21st Congress of the Asian Pacific Academy of Ophthalmology, Singapore, June, 2006.
- "Refractive surgery in naval aviation" at the Aerospace Medical Association annual meeting, Orlando, FL, May 2006.
- "The optimal refractive procedure for enhanced visual outcome" at the Aerospace Medical Association annual meeting, Orlando, FL, May 2006.
- "Evaluation of Flight Performance in Student Naval Aviators after PRK" at the Aerospace Medical Association annual meeting, Orlando, FL, May 2006.
- "Visual Outcomes of Femtosecond and Mechanical Keratomes" at the annual meeting of the American Society of Cataract and Refractive Surgeons, San Francisco, CA, March 2006.
- "Predicting night vision problems after LASIK" at the annual meeting of the American Society of Cataract and Refractive Surgeons, San Francisco, CA, March 2006.
- "The Influence of Flap Thickness on Visual Outcomes after WFG LASIK" at the annual meeting of the American Society of Cataract and Refractive Surgeons, San Francisco, CA, March 2006. (best paper of session)
- "Quality of vision complications after LASIK" at the annual meeting of the American Society of Cataract and Refractive Surgeons, San Francisco, CA, March 2006.

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- "Mitomycin-C to Modulate Wound Healing After Refractive Surgery: Is it Safe?" at the annual meeting of the American Society of Cataract and Refractive Surgeons, San Francisco, CA, March 2006.
- "U.S. Navy Study: Wavefront-Guided PRK vs. Wavefront-Guided LASIK, preliminary report" at the European Society of Cataract and Refractive Surgeons annual meeting, Lisbon, Portugal, September, 2005.
- "Wavefront treatment update" at the annual American Academy of Ophthalmology meeting, Chicago, IL October 2005.
- "Predicting the visual performance of Conventional, Optimized, and WFG LASIK" at the annual American Academy of Ophthalmology meeting, Chicago, IL October 2005.
- "What is the optimal ablation design and wavefront shape for human vision?" at the annual meeting of the American Society of Cataract and Refractive Surgeons, Washington DC, April 2005.
- "Comparison of femtosecond vs mechanical keratomes in WFG LASIK" at the annual meeting of the American Society of Cataract and Refractive Surgeons, Washington DC, April 2005.
- "Why surface ablation? Reviewing the evolution of surface ablation, and the patients that benefit most from the procedure" at the annual meeting of the American Society of Cataract and Refractive Surgeons, Washington DC, April 2005.
- "Determining whether the mesopic pupil predicts who will have symptoms after LASIK" at the annual meeting of the American Society of Cataract and Refractive Surgeons, Washington DC, April 2005.
- "Prospective comparison of four excimer laser systems using a night driving simulator after LASIK" at the annual meeting of the American Society of Cataract and Refractive Surgeons, Washington DC, April 2005.
- "U.S. FDA Clinical Trial of the Toric Implantable Collamer Lens for Moderate to High Myopic Astigmatism" at the annual American Academy of Ophthalmology meeting, New Orleans, Louisiana, October 2004.
- "Wavefront-guided surface ablation" at the Royal Hawaiian meeting, Hawaii, January 2005.
- "Prospective comparison of 4 laser systems to perform LASIK" at the annual American Academy of Ophthalmology meeting, New Orleans, Louisiana, October 2004.
- "WFG PRK" at the annual American College of Eye Surgeons meeting, Marco Island, FL, March 2004.
- "Is it important to measure pupil size?" at the annual American College of Eye Surgeons meeting, Marco Island, FL, March 2004.
- "The quality of vision with WFG LASIK" at the Royal Hawaiian meeting, Kauai, HI, January, 2004.
- "Quality of vision in wavefront versus standard ablation" at the annual American Academy of Ophthalmology meeting, Los Angeles, CA, November, 2003.
- "Clinical factors related to the quality of vision after LASIK" at the annual American Academy of Ophthalmology meeting, Los Angeles, CA, November, 2003.
- "Differences in quality of vision between conventional and WFG LASIK" at the annual Japanese ophthalmic symposium, Osaka, Japan, November, 2003.
- "Refractive surgery in the US Navy" presented to the Japanese Defence force, Tokyo, Japan, November, 2003.
- "Contrast sensitivity in Naval aviators" at the USAF refractive surgery symposium, October, 2003.

- "Refractive surgery options" at the FDA Ophthalmic device panel meeting, Bethesda, MD, October, 2003.
- "Night driving visual performance after LASIK" at the annual European Association of Cataract and Refractive Surgeons meeting, Munich, Germany, September, 2003.
- "LASIK in aviators" at the annual Ocular Surgery News conference, New York, NY, September, 2003.
- "Laser refractive surgery, is the pupil important?" at the annual British Society of Refractive Surgeons meeting, Birmingham, England, May, 2003.
- "Comparing advanced surface ablation to LASIK" at the annual LASEK Congress, Cleveland, OH, May, 2003.
- "Differences in aberrations induced by PRK and LASIK" at the annual Association of Cataract and Refractive Surgeons meeting, Philadelphia, Pennsylvania, April, 2003.
- "Quality of vision comparison between wavefront and conventional LASIK" at the annual Association of Cataract and Refractive Surgeons meeting, Philadelphia, Pennsylvania, April, 2003.
- "Why we need Custom LASIK" at the annual Walter Reed refractive surgery symposium, Bethesda, MD, March, 2003.
- "Assessing the quality of vision, a search for a DoD standard" at the annual Walter Reed refractive surgery symposium, Bethesda, MD, March, 2003.
- "Wavefront as a measure of quality of vision" at the DoD contrast sensitivity meeting, San Antonio, TX, February, 2003.
- "Contrast sensitivity standards in the US Navy" at the tri-service contrast sensitivity meeting, San Antonio, TX, January, 2003.
- "Determinants of quality of vision" at the annual Royal Hawaiian meeting, Maui, HI, January, 2003.
- "Wavefront and quality of vision" at the annual academy of ophthalmology meeting, Orlando, FL, November, 2002.
- "Preventing night vision problems after LASIK" at the annual academy of ophthalmology meeting, Orlando, FL, November, 2002.
- "Aviation and special forces visual needs" at the Schepens Eye Institute, Boston, MA, September, 2002.
- "PRK in the naval aviator" at the annual New England ophthalmic meeting, Boston, MA, September, 2002.
- "The quality of vision after LASIK" at the annual New England ophthalmic meeting, Boston, MA, September, 2002.
- "Wavefront aberrations in keratoconus" at the annual European society of cataract and refractive surgery, Nice, France, September, 2002.
- "LASIK in Naval Aviators" at the annual Aerospace Medical Association meeting, Quebec, Ontario, 2002.
- "The Quality of Vision in Naval Aviators after PRK" at the annual Aerospace Medical Association meeting, Quebec, Ontario, 2002.
- "Correlating Optical Aberrations to Quality of Vision After LASIK" at the annual Association of Cataract and Refractive Surgeons conference, Philadelphia, 2002.
- "Does a large optical and transition zone reduce quality of vision symptoms after LASIK?" at the annual Association of Cataract and Refractive Surgeons conference, Philadelphia, 2002.
- "What determines the Quality of Vision after LASIK?" at the annual Royal Hawaiian meeting, Kona, HI, 2002.

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- "Pupil Size and Quality of Vision after LASIK", at the annual American Academy of Ophthalmology meeting, New Orleans, LA, 2001.
- "Pupil Size and the Quality of Vision after Refractive Surgery" at the annual European Society of Cataract and Refractive Surgeons meeting, Amsterdam, Netherlands, 2001.
- "Pupil Size and the Quality of Vision after Refractive Surgery" at the annual Association of Cataract and Refractive Surgeons conference, San Diego, CA, 2001.
- "Pupil Size and the Quality of Vision after Refractive Surgery" at the annual Association of Cataract and Refractive Surgeons conference, San Diego, CA, 2001.
- "Is a flat wavefront pattern necessary for super-normal vision?" at the annual Association of Cataract and Refractive Surgeons conference, San Diego, CA, 2001.
- "Flap stability following LASIK" at the annual British Society of Refractive Surgeons meeting, Ettington, UK, March 2001.
- "Pupil size and Mesopic contrast sensitivity affecting the quality of vision following refractive surgery" at the annual British Society of Refractive Surgeons meeting, Ettington, UK, March 2001.
- "Refractive surgery programs in the US Navy and in Naval Aviators" at the annual British Society of Refractive Surgeons meeting, Ettington, UK, March 2001.
- "Accuracy of the VISX WaveScan wavefront unit" at the annual meeting of the European Society of Refractive Surgeons, Brussels, Belgium, September 2000.
- "Wavefront Patterns in Patients with Super-normal Vision" at the annual International Society of Refractive Surgeons meeting, Miami, FL, July 2000.
- "Evaluation of Photorefractive Keratectomy in USN and USMC Aviators" at the annual Aerospace Medical Association meeting, Houston, TX, May 2000.
- "Refractive Surgery in Pediatric Ophthalmology" at the annual meeting of Pediatric Surgeons, San Diego, CA, April 2000.
- "Initial Evaluation of Photorefractive Keratectomy in USN and USMC Aviators" at the annual Aerospace Medical Association meeting, Detroit, MI, April 1999.
- "Navy Experience with Photorefractive Keratectomy" at the annual Aerospace Medical Association meeting, Detroit, MI, April 1999.
- "Refractive validity and accuracy of the VISX Wave Front device" at the annual Association of Cataract and Refractive Surgeons conference, Boston, MA, 2000.
- "Initial Evaluation of Lasik in the Us Navy" at the annual Association for Research in Vision and Ophthalmology conference, Ft. Lauderdale, FL, May 2000.
- "Pupil Size and Night Glare and Halo Symptoms after Photorefractive Keratectomy" at the annual Association for Research in Vision and Ophthalmology conference, Ft. Lauderdale, FL, May 1999.
- "Military Entrance Standards for Refractive Surgery" at the annual Department of Defense Medical Examination Review Board (DODMERB) meeting, West Point, NY, November 1998.
- "Prospective Evaluation Plan of PRK in the NASA Mission Specialist" at the annual NASA vision standards conference, Houston, TX, December 1998.
- "Refractive Surgery in Military" at the first annual Australian Association of Cataract and Refractive Surgeons, Sydney, Australia, October 1998.
- "Is it important to measure pupil diameter preoperative?" at the fourth annual American Academy of Ophthalmology refractive surgery special interest group meeting, New Orleans, LA, November 1998.
- "Prospective Evaluation of Mesopic Contrast Sensitivity after Photorefractive Keratectomy"

- at the annual Association for Research in Vision and Ophthalmology conference, Ft. Lauderdale, FL, May 1998.
- "Prospective Evaluation of PRK in Naval Strike and Air Warfare Center Aviators" at NAS Fallon, NV, May, 1998.
 - "Visual Recovery after Photorefractive Keratectomy" at the annual Association of Cataract and Refractive Surgeons conference, San Diego, CA, 1998.
 - "Vector Analysis Outcome of Astigmatic Photorefractive Keratectomy" at the annual Association of Cataract and Refractive Surgeons conference, San Diego, CA, 1998.
 - "Refractive surgery studies in the US Armed Forces" at the third annual American Academy of Ophthalmology refractive surgery special interest group meeting, San Francisco, CA, October 1997.
 - "Initial Evaluation of a Night Driving Simulator after Refractive Surgery" at the annual Association for Research in Vision and Ophthalmology conference, Ft. Lauderdale, FL, May 1997.
 - "Navy perspective on PRK" at the Hawaii 97 annual meeting, Maui, HI, January, 1997.
 - "Aerospace photorefractive keratectomy considerations" at the Naval Aerospace and Operational Medicine Institute annual problems course, Pensacola, FL, December, 1996.
 - "Future directions of military PRK" at the annual Federal Health Symposium, Chicago, IL, October 1996.
 - "Analyst method use for topographical maps: sagittal vs. tangential" at the American Academy of Ophthalmology speakers' forum, Chicago, IL, October 1996.
 - "Military perspective on PRK" at the second annual American Academy of Ophthalmology refractive surgery special interest group meeting, Chicago, IL, October 1996.
 - "The quality of vision after photorefractive keratectomy" at the Fifth Annual Ocular Surgery News Symposium, New York, NY, October 1996.
 - "Topographic detection of photorefractive keratectomy" at the annual Association of Cataract and Refractive Surgeons conference, Seattle, WA, June 1996.
 - "Analysis of motivational factors for requesting photorefractive keratectomy in US Navy personnel" at the annual Association for Research in Vision and Ophthalmology conference, Ft. Lauderdale, FL, April 1996.
 - "Photorefractive keratectomy in the US Navy" at the annual International Association of Research on Laser Refractive Surgery conference, Monte Carlo, Monaco, March 1996.
 - "Introduction to topographic analysis" at the annual International Association of Research on Laser Refractive Surgery conference, Monte Carlo, Monaco, March 1996.
 - "Military implications of PRK" at the 4th annual Australian Military Medicine Association conference, Sydney, Australia, September 1995.
 - "Refractive changes after exposure to high altitude following refractive surgery" at the annual Doheny Eye Institute conference, Los Angeles, CA, June 1995.
 - "Aviation assessment of photorefractive keratectomy" at the annual Aerospace Medical Association conference, Anaheim, CA, May 95.
 - "Preliminary results of photorefractive keratectomy in active duty U.S. Navy personnel" at the annual American Academy of Ophthalmology conference, Chicago, IL, October, 1994.
 - "Photorefractive keratectomy in the Navy" at the annual Society of Military Ophthalmologists conference, Chicago, IL, October 1994.
 - "Visual performance after photorefractive keratectomy" at the annual Association of Cataract and Refractive Surgeons conference, Seattle, WA, May 1994.
 - "Assessment of visual performance after photorefractive keratectomy using a 6 mm ablation

zone" at the annual Association for Research in Vision and Ophthalmology conference, Sarasota, FL, April 1994.

Publications

- Sanders DR, Schneider D, Martin R, Brown D, Dulaney D, Vukich J, Slade S, Schallhorn S. Toric Implantable Collamer Lens for moderate to high myopic astigmatism. *Ophthalmology*. 2007 Jan;114(1):54-61
- Schallhorn SC. Chapter introduction for David J Apple: "Sir Harold Ridley And His Fight for Sight: He Changed the World So That We May Better See It." Slack 2006, ISBN 10 1-55642-786-7.
- Laurent J, Schallhorn, et al. Stability of the laser in situ keratomileusis corneal flap in rabbit eyes. *J Cataract Refract Surg*. 2006 Jun;32(6):1046-51.
- Schallhorn SC, Amesbury EC, Tanzer DJ. Avoidance, recognition, and management of LASIK complications. *Am J Ophthalmol*. 2006 Apr;141(4):733-9
- Wroblewski KJ, Pasternak JF, Bower KS, Schallhorn SC, et al. Infectious keratitis after photorefractive keratectomy in the United States army and navy. *Ophthalmology*. 2006 Apr;113(4):520-5.
- Hofmeister EM, Kaupp SE, Schallhorn SC. Comparison of tropicamide and cyclopentolate for cycloplegic refractions in myopic adult refractive surgery patients. *J Cataract Refract Surg*. 2005 Apr;31(4):694-700.
- Schallhorn SC. *Refractive Surgery: Past, Present, and Future*. In Krachmer, Mannis, and Holland, editors: *Cornea*, 2nd edition, St. Louis, 2005, Mosby.
- Engle AT, Laurent JM, Schallhorn SC, et al. Masked comparison of silicone hydrogel lotrafilcon A and etafilcon A extended-wear bandage contact lenses after photorefractive keratectomy. *J Cataract Refract Surg*. 2005 Apr;31(4):681-6
- Choplin NT, Schallhorn SC, et al. Retinal nerve fiber layer measurements do not change after LASIK for high myopia as measured by scanning laser polarimetry with custom compensation. *Ophthalmology*. 2005 Jan;112(1):92-7.
- Varley GA, Huang D, Rapuano CJ, Schallhorn S, et al. LASIK for hyperopia, hyperopic astigmatism, and mixed astigmatism: a report by the American Academy of Ophthalmology. *Ophthalmology*. 2004 Aug;111(8):1604-17.
- Schallhorn SC, Tanzer DJ, Kaupp SE, et al. Pupil size and quality of vision after LASIK. *Ophthalmology* 2003;110:1606-14.
- Amesbury EC, Schallhorn. Contrast sensitivity and limits of vision. *Int Ophthalmol Clin*. 2003 Spring;43(2):31-42.
- Grimson JM, Schallhorn SC, Kaupp SE. Contrast sensitivity: establishing normative data for use in screening prospective naval pilots. *Aviation Space & Environmental Medicine*. 73(1):28-35, 2002 Jan.
- Kasetsuwan N, Pangilinan RT, Moreira LL, DiMartino DS, Shah SS, Schallhorn SC, McDonnell PJ. Real time intraocular pressure and lamellar corneal flap thickness in keratomileusis. *Cornea*. 20(1):41-4, 2001 Jan.
- Tanzer DJ, Schallhorn SC, Brown MC. Ejection from an aircraft following photorefractive keratectomy: a case report. *Aviation Space & Environmental Medicine*. 71(10):1057-9, 2000 Oct.
- Lattimore MR Jr, Kaupp S, Schallhorn S, Lewis R 4th. Orbscan pachymetry: implications of a repeated measures and diurnal variation analysis. *Ophthalmology*. 106(5):977-81, 1999

May.

- Kampmeier J. Tanzer DJ. Schallhorn SC. LaBree L. McDonnell PJ. Significance of corneal topography in predicting patient complaints after photorefractive keratectomy. *Journal of Cataract & Refractive Surgery*. 25(4):492-9, 1999 Apr.
- Choplin NT. Schallhorn SC. The effect of excimer laser photorefractive keratectomy for myopia on nerve fiber layer thickness measurements as determined by scanning laser polarimetry. *Ophthalmology*. 106(5):1019-23, 1999 May.
- Blanton CL. Schallhorn SC. Tidwell JL. Radial keratotomy learning curve using the American technique. *Journal of Cataract & Refractive Surgery*. 24(4):471-6, 1998 Apr.
- Tanzer DJ. Isfahani A. Schallhorn SC. LaBree LD. McDonnell PJ. Photorefractive keratectomy in African Americans including those with known dermatologic keloid formation. *American Journal of Ophthalmology*. 126(5):625-9, 1998 Nov
- Schallhorn SC. Reid JL. Kaupp SE. Blanton CL. Zoback L. Goforth H Jr. Flowers CW. McDonnell PJ. Topographic detection of photorefractive keratectomy. *Ophthalmology*. 105(3):507-16, 1998 Mar.
- Schallhorn SC and McDonnell PJ. *Refractive Surgery: Past, Present, and Future*. In Krachmer, Mannis, and Holland, editors: *Cornea*, 1st edition, St. Louis, 1997, Mosby.
- Yo C, Schallhorn SC, Dacey, M. No incision cataract surgery. *Video Journal of Cataract and Refractive Surgery*, Vol XIII, issue 1, 1997.
- Mader TH, Blanton CL, Gilbert BN, Schallhorn SC, et al. Refractive changes during 72-hour exposure to high altitude after refractive surgery. *Ophthalmology* 1996;103:1188-95.
- Schallhorn SC, Blanton CL, et al. Preliminary results of photorefractive keratectomy in active duty U.S. Navy personnel. *Ophthalmology* 1996;103:5-22.
- Schallhorn SC: Photorefractive Keratectomy in the Navy. *Navy Med* 1994;85(1):27-32.
- Farrow S, Banta G, Schallhorn SC, et al. Vasopressin inhibits diuresis induced by water immersion in humans. *J Appl. Physiol* 1992;73(3):932-6.
- Cushman WB, Schallhorn SC, et al. Plume: Instructions for Use and Description of a Missile Plume Visibility Program. Naval Aerospace Medical Research Laboratory publication 44, Jan 92.
- Schallhorn SC. Landing Craft Air Cushion Vehicles (LCAC) Crew Medical Standards. *Sea Operations Manual LCAC 91*.
- Schallhorn SC. Visual Search in Air Combat. Naval Aerospace Medical Research Laboratory publication 41, Mar 90.
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