Retinal stray light originating from intraocular lenses and its effect on visual performance
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Curriculum Vitae
Marrie van der Mooren was born 17 October 1960, and graduated in 1987 from the Technical University Twente in Applied Physics, became quartermaster in the military service and thereafter a high school science teacher. In 1989 he moved his career to research engineer at the University of Nijmegen in the field of single crystal growth and nonlinear optics. In 1994 he joined AMO Groningen BV (Abbott Vision) as product development engineer, where he became involved in the Baerveldt Glaucoma shunt and was technical leader and designer for several intraocular lenses including the first Tecnis and Tecnis Multifocal intraocular lens. He developed mechanical and optical test methods according to ISO guidelines. In 2005 he moved to the research department and as scientist responsible for initiating and leading research programs related to clear multifocal vision, intraocular retinal stray light and peripheral vision. He currently holds the position of Research Team Leader.
Publications


International Conference contributions


5. Van der Mooren, M. Stray light levels of different intraocular lens designs and materials. 20th European Society of Ophthalmology Vienna, Austria June 2015.


17. Stachs, O., Meikies, D., Guthoff, RF., van der Mooren M. Rostock Glare Perimeter Der Ophthalmologe · Supplement 1 · PDo09-04 September 2013
18. Van der Mooren, M., Meikies, D., Guthoff, R., Stachs, O. Rostock Glare Perimeter. XXXI Congress of the European Society of Cataract and Refractive Surgeons, Amsterdam, Netherlands, September 2013.
31. Van der Mooren, M., Langeslag, M., Piers, P., Tyson, F., Optical performance of an explanted intraocular lens with micro vacuole optic defect. XXIX Congress of the European Society of Cataract and Refractive Surgeons, Vienna, Austria, September 2011

32. Canovas, C., van der Mooren, M., Piers, P., Wang, L. Koch, D., Artal, P., Corneal spherical aberration regression formulas for myopic post-Lasik patients. XXIX Congress of the European Society of Cataract and Refractive Surgeons, Vienna, Austria, September 2011


35. Van der Mooren, M., Weeber, H. Relationship between multifocal add power and best reading distance. XXVIII Congress of the European Society of Cataract and Refractive Surgeons, Paris, France, September 2010


39. Van der Mooren, M., Franssen, L., Coppens, J., Piers, P., van den Berg, T. In vitro light scatter in diffractive multifocal intraocular lenses. XXVII Congress of the European Society of Cataract and Refractive Surgeons, Barcelona, Spain, September 2009

40. Terwee, T., van der Mooren, M. Diffractive multifocal Tecnis® ZMB00 one-piece IOL: Optical performance and comparison with other aspheric multifocal IOLs XXVII Congress of the European Society of Cataract and Refractive Surgeons, Barcelona, Spain, September 2009

41. Terwee, T., van der Mooren, M. The optical performance of diffractive multifocal IOLs in different eye models and in green and white light XXVII Congress of the European Society of Cataract and Refractive Surgeons, Barcelona, Spain, September 2009


43. Terwee, T., van der Mooren, M., Piers, P., Optical Performance of Tecnis IOLs Compared with IOLs That Partly Compensate for the Mean SA of the Human Cornea. XXVI Congress of the European Society of Cataract and Refractive Surgeons, Berlin, Germany, September 2008

44. Van der Mooren, M., Coppens, J., Piers, P., van den Berg, T. Proposal for in vivo test based on light scatter characteristics of acrylic intraocular lenses in vitro. XXVI Congress of the European Society of Cataract and Refractive Surgeons, Berlin, Germany, September 2008


47. Terwee, T., van der Mooren, M., Piers, P. Optical Performance of Tecnis IOLs compared with IOLs that partly compensate for the Mean Spherical Aberration of the Human Cornea. American Society of Cataract and Refractive Surgery, Chicago, USA April 2008.


**International Standard contributions**

1. Development of the ANSI standard Z80.27-2001 Aqueous shunts for glaucoma application
Patent Contributions

2. Apparatus, system and method to account for spherical aberration at the iris plane in the design of an intraocular lens (US20130282116) (EP2765901)
3. Dual-optic intraocular lens that improves overall vision where there is a local loss of retinal function (US20150297342)
4. Fresnel piggyback intraocular lens that improves overall vision where there is a local loss of retinal function (US20160067037)
5. Piggyback intraocular lens that improves overall vision where there is a local loss of retinal function (US20150297342)
6. Intraocular lens that improves overall vision where there is a local loss of retinal function (WO2015150925) (US20150250583)
7. Enhanced toric lens that improves overall vision where there is a local loss of retinal function (WO2015136375) (US20150250583)
8. Ophthalmic devices, system and methods that improve peripheral vision (WO2015177651)
11. Lens providing extended depth of focus and method relating to same (EP2965145) (WO2014135986) (US20140257480)
13. Apparatus, system, and method for providing an implantable ring for altering a shape of the cornea (US20140277430)
14. Lenses systems and methods for providing binocular customized treatments to correct presbyopia (WO20140887249) (EP2928413)
15. Diffractive binocular lens systems and methods (US20140118684)
17. Diffractive binocular lens systems and methods (EP2496180) (US20110109874) (WO2011055228) (CA2780083)
18. A multifocal lens having an optical power add progression, and a system and method of providing same (CA2819629) (WO2012073112)
20. System and method for measuring dysphotopsia (WO2015081214) (US20150216404)
21. Apparatus, system, and method for providing an optical filter for an implantable lens (US20140324166)
22. Customized intraocular lens power calculation system and method (US20120044454) (WO2012024152) (CA2808791)
24. New intraocular lens (WO2001005327)